

# APPENDIX B. Chapter 3 Data Tables

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**TABLE B-1.** Percentage distribution of grade K-12 public school students in classes taught by teachers with various years of teaching experience, by school level: 2011-12

(Standard errors in parentheses)								
School level	Teachers' years of experience							
	1-5	Total	6-10	6 or more				
				Total	11-15	16-25	26 or more	
<b>All public school students</b>	20.0 (0.66)	80.0 (0.66)	22.5 (0.71)	57.5 (0.80)	20.5 (0.70)	23.0 (0.80)	14.0 (0.66)	
Primary	17.6 (1.30)	82.4 (1.30)	21.2 (1.71)	61.2 (1.91)	21.2 (1.67)	24.7 (1.99)	15.3 (1.54)	
Middle	20.2 (0.70)	79.8 (0.70)	24.1 (0.85)	55.6 (1.00)	18.9 (0.82)	23.4 (0.91)	13.4 (0.83)	
High	21.1 (0.83)	78.9 (0.83)	22.9 (0.71)	56.0 (0.86)	21.4 (0.77)	21.2 (0.74)	13.4 (0.66)	
Combined	28.0 (1.99)	72.0 (1.99)	21.6 (1.86)	50.4 (2.27)	15.9 (1.53)	22.1 (2.31)	12.4 (1.52)	

NOTE: Detail may not sum to totals because of rounding.  
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, Schools and Staffing Survey (SASS), "Public School Teacher Data File," 2011-12.

**TABLE B-2.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and selected school characteristics: 2015

(Standard errors in parentheses)									
School characteristic	Years of experience of mathematics teacher						White		
	Less than 1			1-5			More than 5		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.1 (0.24)	17.4 (0.55)	78.4 (0.58)			
<b>Location</b>									
City	6.0 (0.43)	20.6 (1.03)	73.3 (0.98)	4.8 (0.49)	18.9 (1.05)	76.3 (1.06)			
Suburban	4.5 (0.43)	17.0 (0.82)	78.5 (0.92)	3.8 (0.37)	15.1 (0.77)	81.0 (0.83)			
Town	4.9 (0.72)	21.5 (1.36)	73.7 (1.50)	5.2 (0.76)	20.8 (1.35)	74.0 (1.49)			
Rural	3.7 (0.42)	18.2 (1.07)	78.1 (1.14)	3.6 (0.41)	18.4 (1.17)	78.0 (1.19)			
<b>Minority enrollment</b>									
75 percent or more	6.2 (0.68)	21.9 (1.27)	71.9 (1.37)	6.9 (1.37)	22.0 (2.63)	71.0 (2.65)			
Less than 75 percent	4.3 (0.25)	17.5 (0.55)	78.2 (0.58)	4.0 (0.24)	17.2 (0.55)	78.8 (0.58)			
School characteristic	Black						Hispanic		
	Less than 1			1-5			More than 5		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	6.0 (0.47)	23.3 (1.06)	70.8 (1.00)	5.7 (0.60)	19.0 (1.02)	75.2 (1.12)			
<b>Location</b>									
City	6.8 (0.72)	24.2 (1.41)	69.0 (1.33)	6.6 (0.72)	20.0 (1.75)	73.4 (1.64)			
Suburban	5.2 (0.56)	22.4 (1.60)	72.4 (1.61)	5.7 (1.16)	18.5 (1.70)	75.8 (1.96)			
Town	5.4 (1.45)	25.9 (3.04)	68.8 (3.03)	4.1 (1.01)	20.4 (2.70)	75.6 (2.90)			
Rural	5.1 (1.00)	20.4 (2.29)	74.5 (2.33)	3.4 (0.84)	15.0 (2.59)	81.7 (3.14)			
<b>Minority enrollment</b>									
75 percent or more	6.5 (0.69)	25.5 (1.49)	68.0 (1.58)	6.2 (0.93)	19.8 (1.67)	74.0 (1.79)			
Less than 75 percent	5.3 (0.51)	20.3 (1.11)	74.4 (1.14)	5.1 (0.48)	17.8 (1.09)	77.1 (1.14)			

See notes at end of table.

**TABLE B-2.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and selected school characteristics: 2015—Continued

(Standard errors in parentheses)									
School characteristic	Asian			Pacific Islander					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.5 (0.57)	18.1 (1.76)	77.5 (1.85)	2.8 (0.59)	21.4 (2.94)	75.8 (2.90)			
<b>Location</b>									
City	5.4 (0.79)	19.8 (2.98)	74.7 (2.90)	2.3 (0.82)	27.0 (6.57)	70.6 (6.62)			
Suburban	4.0 (0.87)	16.2 (1.96)	79.8 (2.24)	3.6 (1.15)	16.6 (2.85)	79.9 (2.78)			
Town	1.0 (0.58)	24.8 (4.78)	74.2 (4.79)	1.3 (1.29)	24.3 (5.25)	74.4 (5.42)			
Rural	2.6 (1.68)	17.9 (2.77)	79.5 (3.12)	2.9 (1.74)	14.9 (4.39)	82.2 (4.94)			
<b>Minority enrollment</b>									
75 percent or more	4.7 (1.50)	22.6 (4.08)	72.7 (4.26)	3.2 (0.93)	23.9 (3.90)	72.9 (3.96)			
Less than 75 percent	4.4 (0.77)	15.8 (1.39)	79.9 (1.52)	2.2 (0.83)	17.9 (3.46)	79.9 (3.48)			
School characteristic	American Indian/Alaska Native			Two or more races					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.7 (0.94)	22.7 (1.87)	72.6 (2.01)	4.6 (0.55)	17.8 (1.07)	77.6 (1.16)			
<b>Location</b>									
City	7.3 (2.53)	23.9 (3.35)	68.8 (3.92)	6.5 (1.36)	18.7 (1.81)	74.8 (2.09)			
Suburban	5.2 (2.04)	18.7 (4.26)	76.1 (4.82)	3.9 (0.63)	15.7 (1.28)	80.5 (1.27)			
Town	3.3 (0.82)	30.3 (4.77)	66.4 (4.84)	3.3 (1.05)	22.1 (3.09)	74.6 (3.28)			
Rural	4.0 (1.30)	19.9 (2.55)	76.2 (2.60)	3.1 (1.23)	18.7 (2.64)	78.2 (2.61)			
<b>Minority enrollment</b>									
75 percent or more	3.6 (1.01)	26.2 (2.93)	70.3 (3.12)	6.1 (1.42)	21.7 (3.08)	72.2 (3.37)			
Less than 75 percent	5.3 (1.17)	20.8 (2.62)	73.8 (2.73)	4.3 (0.61)	17.0 (1.03)	78.7 (1.14)			

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-3.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015

(Standard errors in parentheses)									
State	Years of experience of mathematics teacher						White		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.1 (0.24)	17.4 (0.55)	78.4 (0.58)			
Alabama	4.5 (1.29)	19.3 (2.70)	76.2 (2.93)	3.4 (1.05)	19.0 (3.09)	77.6 (3.12)			
Alaska	3.0 (1.04)	17.0 (2.16)	80.0 (2.33)	2.9 (0.92)	14.0 (2.24)	83.1 (2.43)			
Arizona	7.7 (1.71)	20.9 (1.98)	71.3 (2.43)	5.0 (1.60)	16.1 (2.52)	78.9 (3.21)			
Arkansas	3.6 (0.96)	21.6 (2.26)	74.8 (2.45)	2.8 (0.87)	19.9 (2.63)	77.3 (2.81)			
California	4.8 (1.09)	11.8 (2.12)	83.4 (2.48)	3.5 (1.03)	11.4 (2.48)	85.1 (2.58)			
Colorado	7.6 (1.29)	24.6 (2.68)	67.8 (2.99)	6.4 (1.49)	20.9 (2.46)	72.7 (2.62)			
Connecticut	4.6 (0.86)	17.0 (1.65)	78.4 (1.90)	4.3 (0.99)	14.4 (1.88)	81.3 (2.16)			
Delaware	3.1 (0.44)	20.6 (1.17)	76.3 (1.30)	2.7 (0.53)	16.6 (1.40)	80.6 (1.42)			
District of Columbia	10.4 (0.38)	35.6 (0.64)	54.0 (0.69)	7.0 (1.38)	42.4 (3.20)	50.7 (3.21)			
Florida	5.0 (1.16)	23.4 (2.12)	71.6 (2.32)	4.1 (1.28)	22.2 (3.06)	73.8 (3.18)			
Georgia	6.6 (1.52)	12.0 (2.44)	81.4 (2.89)	6.2 (1.72)	10.9 (3.12)	82.8 (3.74)			
Hawaii	3.2 (0.85)	23.6 (1.56)	73.2 (1.83)	1.3 (0.76)	21.7 (3.15)	77.0 (3.30)			
Idaho	5.6 (0.92)	16.5 (1.92)	77.9 (2.27)	4.5 (0.87)	15.4 (1.93)	80.1 (2.27)			
Illinois	3.2 (0.94)	21.2 (2.52)	75.6 (2.76)	2.0 (0.74)	22.1 (3.98)	75.9 (4.04)			
Indiana	4.7 (1.19)	18.9 (1.81)	76.4 (2.12)	4.8 (1.26)	19.0 (2.14)	76.2 (2.41)			
Iowa	5.0 (1.31)	19.6 (2.54)	75.4 (2.57)	5.1 (1.47)	17.9 (2.43)	76.9 (2.48)			
Kansas	6.5 (1.21)	24.4 (2.25)	69.1 (2.47)	4.9 (1.12)	23.3 (2.50)	71.8 (2.73)			
Kentucky	5.6 (1.44)	23.6 (3.57)	70.8 (3.67)	3.9 (1.28)	22.8 (3.85)	73.3 (3.99)			
Louisiana	4.5 (1.29)	18.9 (2.78)	76.5 (3.11)	2.8 (1.01)	13.6 (2.17)	83.6 (2.37)			
Maine	4.0 (0.68)	14.7 (1.29)	81.4 (1.55)	3.9 (0.70)	14.6 (1.34)	81.4 (1.58)			
Maryland	5.4 (0.95)	20.1 (3.01)	74.5 (2.94)	4.8 (1.24)	18.6 (3.47)	76.6 (3.39)			
Massachusetts	5.4 (1.35)	20.0 (1.89)	74.6 (2.20)	5.1 (1.34)	17.2 (2.16)	77.7 (2.36)			
Michigan	2.8 (1.01)	18.2 (2.87)	78.9 (2.99)	3.3 (1.28)	15.2 (2.85)	81.6 (3.01)			
Minnesota	7.8 (1.96)	16.6 (1.96)	75.5 (2.38)	6.9 (1.78)	16.5 (2.38)	76.6 (2.61)			
Mississippi	5.4 (1.12)	29.9 (2.47)	64.7 (2.66)	4.2 (0.81)	25.7 (3.17)	70.1 (3.25)			
Missouri	7.2 (1.48)	25.8 (2.65)	67.1 (2.86)	6.9 (1.53)	23.3 (2.67)	69.8 (2.89)			
Montana	4.0 (0.57)	18.1 (1.06)	78.0 (1.21)	4.0 (0.64)	17.3 (1.14)	78.7 (1.32)			
Nebraska	4.4 (1.08)	26.9 (1.80)	68.6 (2.09)	4.9 (1.33)	25.9 (1.97)	69.2 (2.37)			
Nevada	8.2 (1.64)	22.8 (2.17)	68.9 (2.54)	4.8 (1.89)	18.0 (2.92)	77.1 (3.18)			
New Hampshire	2.5 (0.66)	13.2 (1.41)	84.4 (1.51)	2.4 (0.67)	12.1 (1.36)	85.5 (1.46)			
New Jersey	3.2 (0.92)	19.7 (2.49)	77.1 (2.67)	3.2 (1.10)	16.4 (2.95)	80.4 (3.13)			
New Mexico	6.3 (1.30)	23.4 (1.99)	70.3 (2.09)	7.3 (1.60)	24.8 (2.92)	67.9 (3.11)			
New York	2.1 (0.51)	11.7 (1.64)	86.2 (1.71)	0.6 (0.53)	9.4 (2.37)	89.9 (2.42)			
North Carolina	6.1 (1.30)	25.0 (2.33)	68.9 (2.58)	6.9 (1.89)	23.4 (3.09)	69.8 (3.42)			
North Dakota	6.6 (0.34)	23.3 (0.60)	70.1 (0.67)	6.3 (0.33)	23.2 (0.73)	70.5 (0.81)			
Ohio	2.9 (1.35)	14.2 (2.94)	82.9 (2.99)	2.9 (1.60)	13.0 (3.18)	84.2 (3.23)			
Oklahoma	5.3 (1.28)	23.6 (2.35)	71.1 (2.50)	4.7 (1.33)	20.1 (2.48)	75.2 (2.63)			
Oregon	5.6 (1.32)	18.2 (2.28)	76.2 (2.68)	5.3 (1.27)	18.2 (2.46)	76.5 (2.72)			
Pennsylvania	1.1 (0.48)	14.1 (2.03)	84.8 (2.02)	0.8 (0.42)	13.2 (2.24)	86.0 (2.19)			
Rhode Island	1.4 (0.44)	11.6 (1.31)	87.0 (1.44)	1.4 (0.50)	8.2 (1.13)	90.3 (1.27)			
South Carolina	6.4 (1.39)	21.8 (2.29)	71.8 (2.77)	6.2 (1.56)	18.4 (2.33)	75.4 (2.86)			
South Dakota	6.5 (0.89)	18.7 (1.46)	74.9 (1.48)	6.6 (0.97)	16.4 (1.57)	77.1 (1.60)			
Tennessee	6.8 (1.58)	22.7 (2.91)	70.5 (2.77)	5.6 (1.61)	21.9 (3.02)	72.5 (3.15)			
Texas	5.5 (1.20)	22.6 (2.75)	71.9 (2.80)	5.1 (1.77)	19.1 (3.56)	75.9 (3.74)			
Utah	7.7 (1.70)	25.9 (2.52)	66.5 (2.81)	6.8 (1.57)	25.9 (2.64)	67.3 (2.85)			
Vermont	5.1 (0.29)	15.5 (0.60)	79.3 (0.62)	5.0 (0.36)	15.6 (0.64)	79.4 (0.72)			
Virginia	6.6 (1.57)	18.7 (2.28)	74.7 (2.84)	6.1 (1.88)	17.5 (2.68)	76.4 (3.23)			
Washington	1.7 (0.69)	19.0 (2.69)	79.3 (2.61)	1.5 (0.79)	17.6 (2.98)	80.9 (2.95)			
West Virginia	2.5 (0.47)	20.3 (2.17)	77.2 (2.27)	2.6 (0.52)	19.7 (2.22)	77.7 (2.33)			
Wisconsin	4.8 (1.17)	16.0 (1.93)	79.2 (2.17)	3.8 (1.01)	15.9 (2.04)	80.3 (2.29)			
Wyoming	6.1 (0.42)	21.6 (0.69)	72.3 (0.76)	6.3 (0.48)	20.1 (0.76)	73.6 (0.87)			
Department of Defense Dependents Schools	1.6 (0.17)	9.6 (0.43)	88.8 (0.47)	1.1 (0.29)	8.9 (0.92)	90.0 (0.93)			

See notes at end of table.

**TABLE B-3.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Black			Hispanic					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	6.0 (0.47)	23.3 (1.06)	70.8 (1.00)	5.7 (0.60)	19.0 (1.02)	75.2 (1.12)			
Alabama	6.3 (2.15)	18.7 (3.69)	74.9 (4.49)	4.9 (1.96)	17.4 (6.48)	77.7 (6.42)			
Alaska	5.6 (3.28)	7.2 (3.69)	87.2 (4.53)	2.6 (1.31)	17.8 (4.06)	79.6 (4.31)			
Arizona	13.2 (3.69)	19.6 (4.01)	67.2 (5.12)	9.0 (2.35)	24.5 (2.79)	66.5 (3.12)			
Arkansas	5.2 (2.11)	24.9 (3.26)	69.9 (3.80)	3.6 (1.59)	25.4 (4.50)	71.0 (4.56)			
California	6.2 (1.36)	12.1 (4.01)	81.7 (4.49)	5.4 (1.64)	11.5 (2.37)	83.1 (2.96)			
Colorado	5.0 (2.38)	35.7 (7.05)	59.3 (6.74)	9.8 (1.95)	29.4 (4.35)	60.9 (5.00)			
Connecticut	7.8 (1.84)	28.5 (4.59)	63.8 (4.88)	4.5 (1.21)	20.2 (3.07)	75.3 (3.38)			
Delaware	3.7 (0.77)	26.6 (1.78)	69.7 (2.02)	3.0 (1.02)	22.6 (2.92)	74.3 (3.07)			
District of Columbia	10.9 (0.52)	35.1 (0.93)	54.1 (0.96)	12.0 (1.65)	31.5 (2.49)	56.5 (2.61)			
Florida	7.2 (2.00)	29.0 (2.65)	63.7 (3.00)	4.9 (1.54)	22.5 (2.39)	72.6 (2.63)			
Georgia	6.9 (2.15)	13.7 (3.21)	79.4 (3.56)	7.4 (2.00)	11.8 (3.65)	80.8 (4.13)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	1.3 (0.94)	25.3 (3.86)	73.4 (3.92)			
Idaho	‡ (†)	‡ (†)	‡ (†)	10.3 (2.03)	22.0 (3.86)	67.7 (4.51)			
Illinois	5.0 (2.32)	21.5 (3.78)	73.5 (4.33)	4.3 (1.69)	20.1 (2.94)	75.6 (3.53)			
Indiana	6.7 (2.85)	17.3 (5.11)	76.0 (5.43)	4.8 (2.21)	17.1 (3.20)	78.1 (3.80)			
Iowa	5.6 (2.82)	34.3 (6.03)	60.2 (6.90)	3.9 (1.89)	22.8 (6.41)	73.3 (6.71)			
Kansas	3.7 (1.88)	30.6 (7.37)	65.8 (6.88)	11.9 (2.01)	25.4 (3.69)	62.7 (4.10)			
Kentucky	14.9 (4.61)	27.1 (4.50)	57.9 (5.69)	8.7 (2.15)	26.4 (5.77)	64.8 (5.41)			
Louisiana	6.0 (2.01)	25.0 (4.20)	69.0 (4.68)	4.8 (2.52)	16.9 (6.11)	78.3 (6.54)			
Maine	2.2 (1.42)	16.5 (4.10)	81.3 (4.98)	‡ (†)	‡ (†)	‡ (†)			
Maryland	7.1 (1.38)	22.5 (4.00)	70.4 (4.23)	3.9 (1.13)	19.6 (4.56)	76.5 (4.91)			
Massachusetts	7.9 (2.90)	21.0 (3.64)	71.1 (3.89)	4.9 (1.88)	26.4 (2.75)	68.7 (3.30)			
Michigan	2.2 (1.41)	28.5 (7.83)	69.3 (7.75)	2.7 (2.05)	14.3 (3.07)	82.9 (4.25)			
Minnesota	12.2 (5.67)	20.0 (4.42)	67.8 (5.63)	13.8 (5.18)	17.0 (2.86)	69.1 (4.64)			
Mississippi	6.8 (2.04)	34.9 (3.23)	58.3 (3.65)	4.8 (2.82)	17.0 (4.36)	78.2 (5.41)			
Missouri	7.3 (2.52)	36.9 (7.34)	55.9 (7.39)	7.8 (2.92)	25.9 (6.75)	66.3 (6.28)			
Montana	‡ (†)	‡ (†)	‡ (†)	3.5 (2.10)	15.4 (3.80)	81.1 (4.27)			
Nebraska	1.8 (0.88)	30.3 (5.09)	67.9 (5.12)	3.7 (1.54)	30.7 (3.74)	65.7 (3.62)			
Nevada	12.9 (2.95)	21.8 (4.65)	65.3 (4.50)	10.4 (2.43)	27.3 (2.92)	62.3 (3.60)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	# (†)	24.3 (4.02)	75.7 (4.02)			
New Jersey	1.3 (0.91)	23.8 (6.29)	74.9 (6.38)	3.9 (1.61)	22.7 (3.91)	73.4 (3.89)			
New Mexico	‡ (†)	‡ (†)	‡ (†)	5.6 (1.45)	24.9 (2.37)	69.5 (2.30)			
New York	4.1 (1.78)	12.4 (2.89)	83.6 (3.93)	3.9 (1.10)	14.1 (2.01)	82.0 (2.06)			
North Carolina	5.4 (1.54)	28.1 (2.99)	66.5 (3.36)	6.9 (1.76)	23.7 (3.00)	69.4 (3.64)			
North Dakota	7.8 (2.42)	22.8 (4.98)	69.4 (5.26)	16.0 (3.65)	18.4 (4.77)	65.6 (5.62)			
Ohio	2.4 (1.47)	19.4 (6.21)	78.2 (6.24)	2.7 (1.65)	14.1 (7.96)	83.2 (8.20)			
Oklahoma	11.5 (5.85)	30.0 (5.39)	58.5 (5.81)	7.4 (3.09)	34.4 (4.94)	58.1 (5.81)			
Oregon	9.5 (4.86)	19.1 (5.16)	71.4 (7.22)	6.1 (2.04)	21.4 (3.91)	72.5 (4.12)			
Pennsylvania	3.0 (1.72)	20.4 (5.01)	76.6 (5.86)	2.0 (1.00)	13.5 (5.83)	84.6 (5.67)			
Rhode Island	1.9 (1.19)	18.6 (4.25)	79.5 (4.56)	1.7 (0.84)	17.8 (2.79)	80.4 (2.92)			
South Carolina	6.1 (2.61)	27.4 (3.59)	66.5 (4.63)	9.9 (2.64)	22.8 (4.62)	67.3 (4.98)			
South Dakota	3.1 (2.10)	28.3 (5.16)	68.6 (5.39)	5.9 (2.08)	33.3 (4.31)	60.8 (4.58)			
Tennessee	8.9 (2.84)	24.5 (4.60)	66.6 (4.01)	8.9 (5.19)	25.5 (6.38)	65.6 (5.88)			
Texas	4.4 (1.46)	30.8 (4.41)	64.8 (4.89)	5.5 (1.29)	22.5 (3.28)	71.9 (3.11)			
Utah	‡ (†)	‡ (†)	‡ (†)	10.7 (4.77)	26.2 (4.15)	63.1 (6.12)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	6.9 (2.43)	19.0 (3.01)	74.1 (4.33)	7.3 (2.30)	25.9 (5.42)	66.9 (5.43)			
Washington	# (†)	16.6 (4.60)	83.4 (4.60)	3.7 (1.83)	21.1 (3.75)	75.3 (3.84)			
West Virginia	1.1 (1.07)	33.7 (5.97)	65.3 (5.89)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	12.5 (6.30)	21.8 (5.48)	65.7 (5.35)	3.9 (2.08)	14.9 (4.06)	81.2 (4.86)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	4.9 (1.22)	25.5 (2.17)	69.6 (2.19)			
Department of Defense Dependents Schools	2.6 (1.03)	11.8 (2.01)	85.6 (1.98)	1.2 (0.59)	7.7 (1.42)	91.1 (1.54)			

See notes at end of table.

**TABLE B-3.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

(Standard errors in parentheses)									
State	Asian			Pacific Islander					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>4.5 (0.57)</b>	<b>18.1 (1.76)</b>	<b>77.5 (1.85)</b>	<b>2.8 (0.59)</b>	<b>21.4 (2.94)</b>	<b>75.8 (2.90)</b>			
Alabama	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Alaska	# (†)	21.8 (6.12)	78.2 (6.12)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Arizona	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Arkansas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
California	3.9 (1.48)	13.9 (4.66)	82.2 (4.98)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Colorado	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Connecticut	0.7 (0.65)	8.6 (2.49)	90.7 (2.55)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Delaware	4.2 (2.24)	8.7 (3.19)	87.1 (3.71)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
District of Columbia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Florida	6.0 (3.20)	14.6 (4.75)	79.4 (5.50)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Georgia	5.0 (2.90)	12.3 (3.97)	82.7 (5.05)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Hawaii	3.1 (1.12)	23.7 (2.04)	73.2 (2.54)	4.0 (1.17)	25.7 (1.98)	70.4 (2.22)			
Idaho	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Illinois	1.9 (1.39)	26.8 (9.12)	71.3 (9.25)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Indiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Iowa	2.9 (2.14)	19.4 (5.43)	77.7 (5.71)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Kansas	3.5 (2.64)	23.4 (8.23)	73.1 (8.73)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Kentucky	14.2 (6.11)	17.1 (7.29)	68.7 (7.53)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Louisiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Maryland	3.8 (1.71)	18.0 (5.59)	78.3 (5.74)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Massachusetts	7.7 (4.06)	23.1 (3.36)	69.2 (4.96)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Michigan	# (†)	38.1 (13.31)	61.9 (13.31)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Minnesota	4.7 (2.68)	17.6 (4.66)	77.8 (4.57)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Mississippi	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Missouri	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Montana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Nebraska	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Nevada	4.1 (2.38)	20.4 (4.76)	75.4 (4.95)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New Hampshire	1.8 (1.44)	19.7 (4.25)	78.5 (4.74)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New Jersey	4.5 (2.18)	22.7 (6.44)	72.8 (6.28)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New Mexico	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New York	1.9 (0.92)	15.1 (2.60)	83.0 (2.69)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
North Carolina	0.6 (0.47)	30.6 (7.37)	68.8 (7.49)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
North Dakota	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Ohio	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Oklahoma	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Oregon	5.9 (3.72)	8.9 (4.19)	85.2 (5.54)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Pennsylvania	# (†)	14.8 (5.21)	85.2 (5.21)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Rhode Island	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
South Carolina	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
South Dakota	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Tennessee	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Texas	12.8 (3.30)	17.8 (5.63)	69.4 (5.78)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Utah	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Virginia	4.9 (1.97)	15.8 (3.52)	79.3 (3.90)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Washington	# (†)	18.0 (4.34)	82.0 (4.34)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
West Virginia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Wisconsin	2.5 (1.71)	5.6 (2.97)	92.0 (2.96)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Wyoming	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Department of Defense Dependents Schools	6.4 (2.17)	14.5 (3.31)	79.1 (3.72)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)

See notes at end of table.

**TABLE B-3.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	American Indian/Alaska Native			Two or more races					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>4.7</b> (0.94)	<b>22.7</b> (1.87)	<b>72.6</b> (2.01)	<b>4.6</b> (0.55)	<b>17.8</b> (1.07)	<b>77.6</b> (1.16)			
Alabama	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Alaska	4.6 (2.55)	25.4 (4.84)	69.9 (5.20)	# (†)	14.3 (3.35)	85.7 (3.35)			
Arizona	12.1 (4.93)	32.3 (4.29)	55.5 (5.05)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Arkansas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
California	‡ (†)	‡ (†)	‡ (†)	5.8 (5.38)	5.5 (3.82)	88.6 (6.34)			
Colorado	‡ (†)	‡ (†)	‡ (†)	2.0 (1.40)	22.3 (4.58)	75.7 (4.67)			
Connecticut	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Delaware	‡ (†)	‡ (†)	‡ (†)	2.1 (1.68)	20.7 (4.52)	77.2 (4.61)			
District of Columbia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Florida	‡ (†)	‡ (†)	‡ (†)	3.7 (2.56)	23.8 (6.10)	72.4 (6.43)			
Georgia	‡ (†)	‡ (†)	‡ (†)	7.3 (4.77)	8.6 (3.81)	84.2 (5.09)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	5.6 (2.40)	20.1 (3.38)	74.2 (3.94)			
Idaho	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Illinois	‡ (†)	‡ (†)	‡ (†)	3.1 (2.23)	7.8 (3.45)	89.0 (4.12)			
Indiana	‡ (†)	‡ (†)	‡ (†)	1.1 (1.09)	24.0 (4.38)	74.9 (4.08)			
Iowa	‡ (†)	‡ (†)	‡ (†)	5.6 (2.76)	22.2 (4.93)	72.2 (5.52)			
Kansas	‡ (†)	‡ (†)	‡ (†)	10.0 (4.06)	21.4 (4.22)	68.6 (5.44)			
Kentucky	‡ (†)	‡ (†)	‡ (†)	4.7 (1.61)	27.7 (7.39)	67.6 (7.43)			
Louisiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Maryland	‡ (†)	‡ (†)	‡ (†)	6.8 (3.47)	18.8 (5.74)	74.4 (5.14)			
Massachusetts	‡ (†)	‡ (†)	‡ (†)	7.7 (4.57)	33.7 (6.53)	58.6 (6.79)			
Michigan	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Minnesota	6.0 (3.66)	13.0 (4.73)	81.0 (5.82)	4.3 (2.15)	11.4 (2.93)	84.3 (3.68)			
Mississippi	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Missouri	‡ (†)	‡ (†)	‡ (†)	14.3 (8.03)	23.5 (5.17)	62.3 (7.45)			
Montana	3.9 (1.40)	25.6 (3.47)	70.5 (3.70)	2.1 (1.47)	21.4 (4.70)	76.5 (4.47)			
Nebraska	‡ (†)	‡ (†)	‡ (†)	5.6 (2.99)	23.0 (5.86)	71.4 (6.59)			
Nevada	‡ (†)	‡ (†)	‡ (†)	7.2 (2.75)	18.4 (4.58)	74.4 (4.10)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New Jersey	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New Mexico	6.9 (2.66)	8.2 (2.51)	84.9 (4.23)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
New York	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
North Carolina	0.6 (0.58)	34.8 (8.17)	64.6 (8.16)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
North Dakota	4.0 (1.05)	27.0 (3.00)	69.0 (3.23)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Ohio	‡ (†)	‡ (†)	‡ (†)	3.9 (2.75)	13.1 (4.71)	83.0 (4.93)			
Oklahoma	2.2 (0.96)	15.7 (3.05)	82.1 (3.41)	5.1 (2.39)	27.2 (5.43)	67.7 (6.05)			
Oregon	‡ (†)	‡ (†)	‡ (†)	3.7 (1.80)	16.3 (3.17)	80.0 (4.00)			
Pennsylvania	‡ (†)	‡ (†)	‡ (†)	# (†)	11.1 (3.40)	88.9 (3.40)			
Rhode Island	‡ (†)	‡ (†)	‡ (†)	# (†)	14.7 (4.68)	85.3 (4.68)			
South Carolina	‡ (†)	‡ (†)	‡ (†)	5.7 (2.83)	20.2 (5.19)	74.1 (6.05)			
South Dakota	8.0 (2.28)	23.9 (4.03)	68.1 (4.11)	2.3 (1.57)	19.3 (6.09)	78.4 (6.15)			
Tennessee	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Texas	‡ (†)	‡ (†)	‡ (†)	0.3 (0.18)	23.1 (6.28)	76.7 (6.26)			
Utah	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Virginia	‡ (†)	‡ (†)	‡ (†)	12.3 (3.51)	13.7 (3.23)	74.0 (5.48)			
Washington	2.1 (1.53)	28.9 (8.18)	69.0 (8.08)	0.7 (0.65)	21.0 (5.04)	78.3 (5.02)			
West Virginia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Wisconsin	6.8 (3.87)	14.9 (5.23)	78.2 (6.20)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Wyoming	8.3 (3.18)	30.6 (5.60)	61.1 (6.33)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Department of Defense Dependents Schools	‡ (†)	‡ (†)	‡ (†)	0.5 (0.45)	12.8 (2.32)	86.7 (2.34)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-4.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and jurisdiction: 2015

(Standard errors in parentheses)							
Jurisdiction	Years of experience of mathematics teacher			White			
	Less than 1	1-5	More than 5	Years of experience of mathematics teacher			
				Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.1 (0.24)	17.4 (0.55)	78.4 (0.58)	
Large city	5.8 (0.60)	21.3 (1.34)	72.9 (1.33)	4.3 (0.63)	20.3 (1.58)	75.4 (1.57)	
Albuquerque	3.2 (1.21)	21.2 (2.18)	75.6 (2.46)	1.8 (1.16)	15.6 (3.45)	82.6 (3.53)	
Atlanta	1.4 (0.51)	17.8 (1.72)	80.8 (1.59)	# (†)	9.2 (2.07)	90.8 (2.07)	
Austin	6.7 (1.40)	32.6 (3.18)	60.7 (3.11)	1.6 (0.94)	17.0 (3.84)	81.4 (4.13)	
Baltimore City	14.5 (3.57)	24.7 (3.37)	60.8 (4.58)	20.0 (10.13)	13.3 (4.01)	66.7 (10.98)	
Boston	4.8 (0.85)	22.7 (2.14)	72.5 (2.42)	2.3 (1.34)	14.3 (3.48)	83.4 (3.74)	
Charlotte	5.2 (1.73)	31.8 (2.42)	63.0 (3.45)	7.0 (3.05)	23.2 (3.60)	69.8 (5.25)	
Chicago	3.4 (1.30)	26.2 (3.18)	70.4 (3.29)	0.5 (0.46)	16.3 (4.44)	83.2 (4.48)	
Cleveland	5.6 (0.39)	1.8 (0.30)	92.6 (0.48)	2.1 (1.19)	# (†)	97.9 (1.19)	
Dallas	13.9 (3.52)	23.0 (4.22)	63.1 (4.42)	11.9 (8.18)	20.7 (12.58)	67.5 (14.91)	
Detroit	4.5 (1.36)	6.3 (2.24)	89.2 (2.46)	‡ (†)	‡ (†)	‡ (†)	
District of Columbia (DCPS)	9.3 (0.45)	30.3 (0.76)	60.4 (0.86)	4.9 (1.14)	37.5 (3.55)	57.6 (3.46)	
Fresno	7.4 (1.51)	10.7 (1.83)	81.9 (2.31)	3.4 (1.52)	13.1 (4.94)	83.5 (4.94)	
Hillsborough County (FL)	4.0 (1.77)	26.5 (4.06)	69.5 (4.07)	1.9 (1.11)	25.9 (5.50)	72.2 (5.62)	
Houston	9.3 (2.41)	29.8 (3.24)	60.9 (4.01)	3.7 (1.65)	26.8 (5.81)	69.5 (5.90)	
Jefferson County (KY)	9.6 (2.48)	22.5 (4.12)	67.9 (4.40)	7.2 (2.30)	22.1 (4.76)	70.7 (5.16)	
Los Angeles	1.8 (0.95)	3.4 (1.25)	94.8 (1.52)	7.6 (5.68)	9.3 (7.29)	83.1 (7.64)	
Miami-Dade	# (†)	20.9 (3.20)	79.1 (3.20)	# (†)	21.4 (5.41)	78.6 (5.41)	
New York City	5.5 (1.35)	18.7 (2.77)	75.8 (3.17)	6.9 (4.65)	25.3 (7.50)	67.8 (7.45)	
Philadelphia	0.3 (0.21)	6.0 (1.99)	93.7 (1.99)	# (†)	1.8 (1.64)	98.2 (1.64)	
San Diego	2.6 (1.07)	10.9 (2.83)	86.5 (3.08)	# (†)	1.0 (0.74)	99.0 (0.74)	
Duval County (FL)	2.9 (1.12)	17.7 (3.40)	79.3 (3.62)	2.8 (1.35)	13.4 (2.53)	83.9 (2.54)	
	Black			Hispanic			
Jurisdiction	Years of experience of mathematics teacher			Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	6.0 (0.47)	23.3 (1.06)	70.8 (1.00)	5.7 (0.60)	19.0 (1.02)	75.2 (1.12)	
Large city	6.5 (0.75)	25.2 (1.51)	68.4 (1.58)	6.4 (0.85)	20.1 (2.04)	73.5 (1.97)	
Albuquerque	‡ (†)	‡ (†)	‡ (†)	4.1 (1.52)	23.0 (2.17)	72.8 (2.61)	
Atlanta	1.9 (0.72)	20.6 (2.28)	77.5 (2.13)	# (†)	14.9 (2.83)	85.1 (2.83)	
Austin	7.1 (2.54)	62.6 (6.40)	30.3 (6.35)	8.3 (2.14)	37.7 (3.75)	54.0 (3.80)	
Baltimore City	13.6 (3.32)	26.5 (3.81)	59.9 (4.90)	16.2 (8.60)	17.8 (8.53)	66.0 (11.21)	
Boston	5.0 (1.36)	25.8 (3.67)	69.2 (4.00)	5.0 (1.30)	24.8 (2.64)	70.2 (2.83)	
Charlotte	4.4 (1.59)	33.7 (3.12)	61.8 (3.81)	4.3 (1.95)	40.0 (4.54)	55.7 (5.12)	
Chicago	4.0 (2.53)	34.0 (5.42)	62.0 (5.58)	4.2 (2.09)	21.0 (4.28)	74.8 (4.78)	
Cleveland	6.8 (0.72)	2.6 (0.44)	90.6 (0.83)	5.4 (0.98)	# (†)	94.6 (0.98)	
Dallas	10.0 (4.88)	37.0 (10.10)	53.0 (9.87)	15.3 (3.77)	18.5 (3.61)	66.2 (4.44)	
Detroit	3.6 (1.52)	6.9 (2.71)	89.5 (2.99)	8.4 (3.34)	4.2 (2.52)	87.4 (4.01)	
District of Columbia (DCPS)	9.2 (0.61)	29.2 (1.08)	61.6 (1.16)	15.3 (2.20)	24.5 (3.12)	60.3 (3.29)	
Fresno	5.8 (2.70)	15.7 (4.48)	78.4 (5.34)	8.6 (1.79)	10.2 (1.79)	81.2 (2.32)	
Hillsborough County (FL)	6.0 (4.96)	34.9 (6.17)	59.1 (5.50)	4.9 (1.74)	23.1 (3.78)	72.1 (4.09)	
Houston	7.5 (4.12)	29.2 (5.98)	63.3 (6.83)	11.2 (2.70)	31.3 (3.60)	57.5 (4.60)	
Jefferson County (KY)	13.8 (3.43)	24.0 (4.23)	62.2 (4.76)	7.0 (3.18)	22.4 (7.11)	70.6 (7.19)	
Los Angeles	# (†)	# (†)	100.0 <sup>1</sup> (†)	1.1 (0.73)	2.6 (0.92)	96.3 (1.20)	
Miami-Dade	# (†)	33.1 (6.99)	66.9 (6.99)	# (†)	17.9 (3.27)	82.1 (3.27)	
New York City	5.8 (2.77)	18.4 (4.92)	75.9 (6.89)	6.2 (1.82)	17.1 (2.85)	76.7 (3.05)	
Philadelphia	0.4 (0.37)	7.9 (2.64)	91.7 (2.65)	0.4 (0.41)	6.2 (2.82)	93.4 (2.84)	
San Diego	3.2 (2.09)	13.0 (4.91)	83.7 (5.23)	3.5 (1.57)	16.7 (5.07)	79.8 (5.28)	
Duval County (FL)	3.2 (1.41)	22.1 (5.61)	74.7 (5.80)	1.9 (1.68)	19.3 (4.65)	78.8 (4.84)	

See notes at end of table.

**TABLE B-4.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and jurisdiction: 2015—Continued

(Standard errors in parentheses)									
Jurisdiction	Asian					Pacific Islander			
	Years of experience of mathematics teacher					Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.5 (0.57)	18.1 (1.76)	77.5 (1.85)	2.8 (0.59)	21.4 (2.94)	75.8 (2.90)			
Large city	3.4 (1.00)	20.2 (3.93)	76.4 (3.92)	3.2 (1.25)	20.1 (6.18)	76.7 (6.26)			
Albuquerque	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Atlanta	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Austin	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Baltimore City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Boston	8.8 (3.41)	11.8 (3.92)	79.4 (4.64)	‡ (†)	‡ (†)	‡ (†)			
Charlotte	2.6 (2.17)	28.0 (6.58)	69.5 (7.21)	‡ (†)	‡ (†)	‡ (†)			
Chicago	# (†)	41.6 (13.67)	58.4 (13.67)	‡ (†)	‡ (†)	‡ (†)			
Cleveland	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Dallas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Detroit	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia (DCPS)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Fresno	3.7 (1.76)	8.4 (2.94)	87.9 (3.04)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Houston	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Jefferson County (KY)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Los Angeles	1.3 (1.23)	6.4 (4.17)	92.2 (4.24)	‡ (†)	‡ (†)	‡ (†)			
Miami-Dade	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New York City	2.9 (1.38)	17.3 (3.63)	79.8 (3.76)	‡ (†)	‡ (†)	‡ (†)			
Philadelphia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
San Diego	2.8 (1.94)	6.8 (3.62)	90.4 (4.35)	‡ (†)	‡ (†)	‡ (†)			
Duval County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Jurisdiction	American Indian/Alaska Native					Two or more races			
	Years of experience of mathematics teacher					Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.7 (0.94)	22.7 (1.87)	72.6 (2.01)	4.6 (0.55)	17.8 (1.07)	77.6 (1.16)			
Large city	2.9 (1.28)	21.9 (2.90)	75.2 (3.39)	5.9 (1.51)	20.2 (2.41)	73.9 (2.29)			
Albuquerque	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Atlanta	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Austin	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Baltimore City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Boston	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Charlotte	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Chicago	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Cleveland	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Dallas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Detroit	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia (DCPS)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Fresno	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Houston	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Jefferson County (KY)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Los Angeles	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Miami-Dade	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New York City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Philadelphia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
San Diego	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Duval County (FL)	‡ (†)	‡ (†)	‡ (†)	2.4 (2.05)	9.4 (3.49)	88.1 (3.91)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-5.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, disability status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)									
	Years of experience of mathematics teacher			With a disability			Without a disability			
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher			
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.3 (0.27)	19.6 (0.62)	76.0 (0.64)	4.9 (0.29)	18.7 (0.58)	76.4 (0.62)	
<b>Location</b>										
City	6.0 (0.43)	20.6 (1.03)	73.3 (0.98)	5.6 (0.65)	24.1 (1.43)	70.3 (1.39)	6.1 (0.45)	20.2 (1.05)	73.7 (1.01)	
Suburban	4.5 (0.43)	17.0 (0.82)	78.5 (0.92)	3.5 (0.44)	17.2 (0.90)	79.3 (1.02)	4.7 (0.49)	17.0 (0.87)	78.3 (0.98)	
Town	4.9 (0.72)	21.5 (1.36)	73.7 (1.50)	4.6 (1.01)	20.1 (1.82)	75.3 (2.22)	4.9 (0.71)	21.7 (1.38)	73.4 (1.51)	
Rural	3.7 (0.42)	18.2 (1.07)	78.1 (1.14)	3.9 (0.55)	17.8 (1.39)	78.2 (1.35)	3.6 (0.43)	18.2 (1.09)	78.1 (1.19)	
<b>Minority enrollment</b>										
75 percent or more	6.2 (0.68)	21.9 (1.27)	71.9 (1.37)	5.7 (0.62)	23.6 (1.58)	70.7 (1.56)	6.3 (0.75)	21.7 (1.31)	72.0 (1.46)	
Less than 75 percent	4.3 (0.25)	17.5 (0.55)	78.2 (0.58)	3.8 (0.34)	18.2 (0.68)	78.0 (0.74)	4.4 (0.26)	17.4 (0.57)	78.2 (0.60)	

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-6.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, disability status, and state: 2015

State	(Standard errors in parentheses)								
	Years of experience of mathematics teacher			With a disability			Without a disability		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.3 (0.27)	19.6 (0.62)	76.0 (0.64)	4.9 (0.29)	18.7 (0.58)	76.4 (0.62)
Alabama	4.5 (1.29)	19.3 (2.70)	76.2 (2.93)	7.6 (2.25)	20.4 (3.19)	72.1 (4.03)	4.1 (1.27)	19.2 (2.78)	76.7 (2.98)
Alaska	3.0 (1.04)	17.0 (2.16)	80.0 (2.33)	4.8 (1.78)	15.5 (3.58)	79.7 (4.23)	2.7 (1.03)	17.2 (2.15)	80.1 (2.25)
Arizona	7.7 (1.71)	20.9 (1.98)	71.3 (2.43)	5.5 (1.59)	18.1 (2.67)	76.3 (2.86)	8.1 (1.82)	21.3 (2.04)	70.6 (2.53)
Arkansas	3.6 (0.96)	21.6 (2.26)	74.8 (2.45)	2.6 (1.20)	25.1 (3.37)	72.3 (3.46)	3.7 (0.98)	21.1 (2.32)	75.2 (2.53)
California	4.8 (1.09)	11.8 (2.12)	83.4 (2.48)	4.9 (1.56)	15.3 (3.65)	79.7 (3.66)	4.8 (1.20)	11.5 (2.16)	83.8 (2.59)
Colorado	7.6 (1.29)	24.6 (2.68)	67.8 (2.99)	6.8 (2.02)	20.3 (3.21)	73.0 (3.70)	7.6 (1.29)	25.2 (2.77)	67.2 (3.09)
Connecticut	4.6 (0.86)	17.0 (1.65)	78.4 (1.90)	4.0 (1.28)	20.3 (3.13)	75.7 (3.27)	4.7 (0.89)	16.5 (1.64)	78.7 (1.91)
Delaware	3.1 (0.44)	20.6 (1.17)	76.3 (1.30)	3.0 (0.92)	21.5 (2.23)	75.5 (2.54)	3.1 (0.49)	20.4 (1.20)	76.4 (1.36)
District of Columbia	10.4 (0.38)	35.6 (0.64)	54.0 (0.69)	9.0 (1.65)	41.6 (2.84)	49.4 (2.97)	10.6 (0.43)	34.8 (0.73)	54.6 (0.78)
Florida	5.0 (1.16)	23.4 (2.12)	71.6 (2.32)	4.1 (1.86)	21.0 (2.47)	74.8 (3.08)	5.2 (1.24)	23.9 (2.26)	71.0 (2.47)
Georgia	6.6 (1.52)	12.0 (2.44)	81.4 (2.89)	4.4 (1.65)	18.3 (4.01)	77.3 (4.37)	6.9 (1.65)	11.0 (2.32)	82.0 (2.81)
Hawaii	3.2 (0.85)	23.6 (1.56)	73.2 (1.83)	2.7 (1.17)	24.6 (3.79)	72.8 (4.04)	3.2 (0.89)	23.5 (1.63)	73.3 (1.90)
Idaho	5.6 (0.92)	16.5 (1.92)	77.9 (2.27)	5.9 (1.64)	18.2 (3.07)	76.0 (3.64)	5.5 (0.94)	16.3 (1.95)	78.1 (2.31)
Illinois	3.2 (0.94)	21.2 (2.52)	75.6 (2.76)	3.0 (1.39)	23.0 (3.68)	74.0 (3.83)	3.2 (1.05)	21.0 (2.49)	75.8 (2.79)
Indiana	4.7 (1.19)	18.9 (1.81)	76.4 (2.12)	5.0 (1.93)	21.8 (2.95)	73.2 (3.34)	4.7 (1.26)	18.3 (1.85)	77.0 (2.21)
Iowa	5.0 (1.31)	19.6 (2.54)	75.4 (2.57)	6.2 (2.18)	19.6 (3.94)	74.2 (3.99)	4.8 (1.28)	19.6 (2.52)	75.5 (2.58)

See notes at end of table.

**TABLE B-6.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, disability status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	With a disability						Without a disability					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
Kansas	6.5 (1.21)	24.4 (2.25)	69.1 (2.47)	5.8 (1.85)	25.9 (2.94)	68.2 (3.20)	6.6 (1.26)	24.1 (2.35)	69.3 (2.56)			
Kentucky	5.6 (1.44)	23.6 (3.57)	70.8 (3.67)	4.1 (1.29)	20.4 (4.03)	75.4 (4.04)	5.8 (1.53)	24.1 (3.69)	70.1 (3.84)			
Louisiana	4.5 (1.29)	18.9 (2.78)	76.5 (3.11)	4.3 (1.81)	19.0 (3.82)	76.7 (4.16)	4.6 (1.33)	18.9 (2.94)	76.5 (3.27)			
Maine	4.0 (0.68)	14.7 (1.29)	81.4 (1.55)	4.8 (1.30)	15.2 (1.89)	79.9 (2.39)	3.8 (0.71)	14.5 (1.44)	81.7 (1.67)			
Maryland	5.4 (0.95)	20.1 (3.01)	74.5 (2.94)	5.8 (1.53)	20.0 (3.29)	74.2 (3.69)	5.4 (0.99)	20.1 (3.14)	74.5 (3.03)			
Massachusetts	5.4 (1.35)	20.0 (1.89)	74.6 (2.20)	5.2 (1.64)	18.4 (2.59)	76.4 (2.91)	5.5 (1.40)	20.4 (2.04)	74.1 (2.30)			
Michigan	2.8 (1.01)	18.2 (2.87)	78.9 (2.99)	2.4 (1.09)	12.8 (3.14)	84.8 (3.34)	2.9 (1.04)	19.0 (2.98)	78.1 (3.09)			
Minnesota	7.8 (1.96)	16.6 (1.96)	75.5 (2.38)	8.5 (2.57)	18.4 (3.11)	73.2 (3.20)	7.8 (1.96)	16.4 (2.00)	75.8 (2.43)			
Mississippi	5.4 (1.12)	29.9 (2.47)	64.7 (2.66)	7.4 (1.93)	29.1 (3.52)	63.5 (3.92)	5.2 (1.18)	29.9 (2.56)	64.9 (2.79)			
Missouri	7.2 (1.48)	25.8 (2.65)	67.1 (2.86)	7.0 (2.03)	28.3 (3.69)	64.7 (3.94)	7.2 (1.49)	25.4 (2.65)	67.4 (2.91)			
Montana	4.0 (0.57)	18.1 (1.06)	78.0 (1.21)	4.4 (1.39)	20.1 (3.05)	75.5 (3.33)	3.9 (0.63)	17.8 (1.11)	78.3 (1.31)			
Nebraska	4.4 (1.08)	26.9 (1.80)	68.6 (2.09)	3.5 (1.26)	23.5 (2.73)	73.0 (3.32)	4.6 (1.13)	27.5 (1.81)	67.8 (2.07)			
Nevada	8.2 (1.64)	22.8 (2.17)	68.9 (2.54)	5.3 (1.82)	20.6 (3.16)	74.1 (3.68)	8.5 (1.70)	23.1 (2.30)	68.4 (2.64)			
New Hampshire	2.5 (0.66)	13.2 (1.41)	84.4 (1.51)	3.4 (1.34)	14.0 (2.11)	82.5 (2.32)	2.3 (0.63)	13.0 (1.50)	84.8 (1.62)			
New Jersey	3.2 (0.92)	19.7 (2.49)	77.1 (2.67)	1.7 (0.79)	20.3 (2.96)	77.9 (3.16)	3.5 (1.04)	19.6 (2.62)	76.9 (2.86)			
New Mexico	6.3 (1.30)	23.4 (1.99)	70.3 (2.09)	8.0 (1.88)	23.0 (2.83)	69.1 (3.38)	6.0 (1.31)	23.4 (2.11)	70.5 (2.22)			
New York	2.1 (0.51)	11.7 (1.64)	86.2 (1.71)	2.7 (0.97)	14.0 (2.17)	83.2 (2.28)	1.9 (0.55)	11.2 (1.74)	86.8 (1.81)			
North Carolina	6.1 (1.30)	25.0 (2.33)	68.9 (2.58)	4.6 (1.48)	24.8 (3.32)	70.6 (3.46)	6.3 (1.36)	25.0 (2.43)	68.7 (2.69)			
North Dakota	6.6 (0.34)	23.3 (0.60)	70.1 (0.67)	6.9 (1.62)	23.3 (2.51)	69.8 (2.81)	6.5 (0.34)	23.3 (0.68)	70.2 (0.78)			
Ohio	2.9 (1.35)	14.2 (2.94)	82.9 (2.99)	2.6 (1.67)	18.7 (3.30)	78.7 (3.51)	3.0 (1.33)	13.5 (3.06)	83.6 (3.10)			
Oklahoma	5.3 (1.28)	23.6 (2.35)	71.1 (2.50)	5.9 (2.02)	18.8 (2.89)	75.3 (3.15)	5.2 (1.29)	24.4 (2.54)	70.3 (2.71)			
Oregon	5.6 (1.32)	18.2 (2.28)	76.2 (2.68)	6.3 (1.60)	21.9 (3.70)	71.8 (3.88)	5.5 (1.37)	17.7 (2.22)	76.8 (2.64)			
Pennsylvania	1.1 (0.48)	14.1 (2.03)	84.8 (2.02)	2.9 (1.25)	15.4 (2.94)	81.7 (2.89)	0.7 (0.38)	13.8 (2.22)	85.4 (2.17)			
Rhode Island	1.4 (0.44)	11.6 (1.31)	87.0 (1.44)	2.7 (1.07)	15.5 (2.66)	81.8 (2.96)	1.2 (0.43)	11.0 (1.31)	87.8 (1.38)			
South Carolina	6.4 (1.39)	21.8 (2.29)	71.8 (2.77)	6.6 (1.73)	24.8 (3.22)	68.6 (3.57)	6.3 (1.44)	21.4 (2.33)	72.3 (2.83)			
South Dakota	6.5 (0.89)	18.7 (1.46)	74.9 (1.48)	6.0 (1.37)	22.5 (2.49)	71.5 (2.44)	6.6 (0.92)	17.9 (1.46)	75.5 (1.52)			
Tennessee	6.8 (1.58)	22.7 (2.91)	70.5 (2.77)	4.5 (1.68)	22.4 (4.39)	73.1 (4.53)	7.1 (1.67)	22.8 (2.86)	70.1 (2.76)			
Texas	5.5 (1.20)	22.6 (2.75)	71.9 (2.80)	3.6 (1.60)	22.3 (3.95)	74.1 (4.21)	5.8 (1.21)	22.7 (2.76)	71.6 (2.80)			
Utah	7.7 (1.70)	25.9 (2.52)	66.5 (2.81)	5.5 (1.73)	22.9 (3.24)	71.5 (3.77)	7.9 (1.76)	26.2 (2.59)	65.8 (2.83)			
Vermont	5.1 (0.29)	15.5 (0.60)	79.3 (0.62)	4.9 (1.22)	16.1 (1.70)	79.0 (2.11)	5.2 (0.32)	15.5 (0.70)	79.4 (0.74)			
Virginia	6.6 (1.57)	18.7 (2.28)	74.7 (2.84)	6.1 (2.04)	21.3 (4.05)	72.6 (4.53)	6.7 (1.58)	18.3 (2.20)	75.0 (2.80)			
Washington	1.7 (0.69)	19.0 (2.69)	79.3 (2.61)	1.9 (1.07)	20.5 (3.69)	77.6 (3.61)	1.7 (0.67)	18.8 (2.66)	79.6 (2.60)			
West Virginia	2.5 (0.47)	20.3 (2.17)	77.2 (2.27)	2.4 (0.83)	19.3 (3.50)	78.3 (3.61)	2.5 (0.50)	20.5 (2.08)	77.0 (2.20)			
Wisconsin	4.8 (1.17)	16.0 (1.93)	79.2 (2.17)	3.7 (1.36)	16.3 (3.38)	80.0 (3.45)	4.9 (1.22)	15.9 (1.91)	79.2 (2.22)			
Wyoming	6.1 (0.42)	21.6 (0.69)	72.3 (0.76)	5.9 (1.19)	18.1 (2.33)	76.0 (2.66)	6.2 (0.47)	22.2 (0.84)	71.6 (0.86)			
Department of Defense Dependents Schools	1.6 (0.17)	9.6 (0.43)	88.8 (0.47)	0.9 (0.64)	9.6 (1.43)	89.4 (1.54)	1.7 (0.21)	9.7 (0.48)	88.6 (0.54)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

TABLE B-7. Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, disability status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)									
	Years of experience of mathematics teacher			With a disability			Without a disability			
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	4.3 (0.27)	19.6 (0.62)	76.0 (0.64)	4.9 (0.29)	18.7 (0.58)	76.4 (0.62)	
Large city	5.8 (0.60)	21.3 (1.34)	72.9 (1.33)	6.0 (0.86)	24.0 (1.59)	70.0 (1.58)	5.7 (0.60)	21.0 (1.37)	73.3 (1.37)	
Albuquerque	3.2 (1.21)	21.2 (2.18)	75.6 (2.46)	7.1 (2.72)	23.3 (4.68)	69.6 (5.26)	2.5 (1.18)	20.8 (2.09)	76.7 (2.25)	
Atlanta	1.4 (0.51)	17.8 (1.72)	80.8 (1.59)	4.9 (2.42)	17.0 (3.20)	78.1 (3.70)	1.0 (0.50)	17.9 (1.89)	81.1 (1.69)	
Austin	6.7 (1.40)	32.6 (3.18)	60.7 (3.11)	4.1 (1.85)	29.0 (3.62)	66.9 (3.60)	7.2 (1.54)	33.3 (3.47)	59.6 (3.49)	
Baltimore City	14.5 (3.57)	24.7 (3.37)	60.8 (4.58)	19.6 (5.96)	28.4 (4.98)	52.1 (6.56)	13.6 (3.42)	24.1 (3.37)	62.3 (4.53)	
Boston	4.8 (0.85)	22.7 (2.14)	72.5 (2.42)	3.6 (1.37)	23.5 (3.05)	73.0 (3.18)	5.2 (0.98)	22.5 (2.42)	72.4 (2.81)	
Charlotte	5.2 (1.73)	31.8 (2.42)	63.0 (3.45)	7.4 (3.57)	39.9 (5.48)	52.7 (6.25)	4.9 (1.74)	31.0 (2.44)	64.1 (3.46)	
Chicago	3.4 (1.30)	26.2 (3.18)	70.4 (3.29)	2.9 (1.89)	26.0 (4.69)	71.0 (4.78)	3.5 (1.33)	26.2 (3.41)	70.3 (3.51)	
Cleveland	5.6 (0.39)	1.8 (0.30)	92.6 (0.48)	4.3 (1.75)	2.6 (1.30)	93.1 (2.07)	5.9 (0.54)	1.6 (0.24)	92.5 (0.58)	
Dallas	13.9 (3.52)	23.0 (4.22)	63.1 (4.42)	‡ (†)	‡ (†)	‡ (†)	14.2 (3.60)	22.5 (4.06)	63.3 (4.41)	
Detroit	4.5 (1.36)	6.3 (2.24)	89.2 (2.46)	4.0 (2.39)	6.1 (2.76)	89.9 (3.68)	4.6 (1.45)	6.3 (2.38)	89.1 (2.62)	
District of Columbia (DCPS)	9.3 (0.45)	30.3 (0.76)	60.4 (0.86)	9.7 (2.65)	32.1 (3.82)	58.2 (4.84)	9.3 (0.47)	30.1 (0.88)	60.6 (0.97)	
Fresno	7.4 (1.51)	10.7 (1.83)	81.9 (2.31)	7.7 (2.95)	10.5 (3.75)	81.8 (4.59)	7.4 (1.63)	10.8 (1.85)	81.9 (2.41)	
Hillsborough County (FL)	4.0 (1.77)	26.5 (4.06)	69.5 (4.07)	2.1 (1.45)	26.1 (4.63)	71.7 (4.57)	4.4 (1.88)	26.6 (4.28)	69.0 (4.27)	
Houston	9.3 (2.41)	29.8 (3.24)	60.9 (4.01)	7.5 (3.05)	31.2 (6.02)	61.3 (6.40)	9.4 (2.44)	29.7 (3.32)	60.9 (4.10)	
Jefferson County (KY)	9.6 (2.48)	22.5 (4.12)	67.9 (4.40)	8.1 (3.21)	27.7 (6.41)	64.2 (6.49)	9.8 (2.53)	21.8 (4.03)	68.4 (4.35)	
Los Angeles	1.8 (0.95)	3.4 (1.25)	94.8 (1.52)	2.8 (1.63)	9.1 (3.11)	88.1 (3.42)	1.7 (0.96)	2.7 (1.24)	95.5 (1.53)	
Miami-Dade	# (†)	20.9 (3.20)	79.1 (3.20)	# (†)	24.7 (5.49)	75.3 (5.49)	# (†)	20.5 (3.30)	79.5 (3.30)	
New York City	5.5 (1.35)	18.7 (2.77)	75.8 (3.17)	6.5 (2.36)	25.8 (3.99)	67.7 (4.35)	5.2 (1.55)	16.5 (2.92)	78.3 (3.49)	
Philadelphia	0.3 (0.21)	6.0 (1.99)	93.7 (1.99)	2.3 (1.64)	5.3 (2.36)	92.3 (2.73)	# (†)	6.1 (2.15)	93.9 (2.15)	
San Diego	2.6 (1.07)	10.9 (2.83)	86.5 (3.08)	1.1 (1.25)	14.5 (5.06)	84.4 (5.19)	2.7 (1.15)	10.6 (2.81)	86.7 (3.06)	
Duval County (FL)	2.9 (1.12)	17.7 (3.40)	79.3 (3.62)	1.7 (1.15)	16.1 (4.87)	82.2 (4.83)	3.1 (1.20)	18.0 (3.51)	78.8 (3.74)	

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-8.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner			Not English language learner					
	Less than 1	1-5	More than 5	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	5.9 (0.65)	19.8 (1.28)	74.3 (1.42)	4.7 (0.25)	18.7 (0.54)	76.6 (0.56)			
<b>Location</b>												
City	6.0 (0.43)	20.6 (1.03)	73.3 (0.98)	7.4 (0.80)	22.3 (1.80)	70.3 (1.84)	5.8 (0.43)	20.3 (0.99)	73.9 (0.93)			
Suburban	4.5 (0.43)	17.0 (0.82)	78.5 (0.92)	5.4 (1.17)	18.1 (2.12)	76.5 (2.47)	4.4 (0.40)	16.9 (0.77)	78.7 (0.86)			
Town	4.9 (0.72)	21.5 (1.36)	73.7 (1.50)	3.9 (1.15)	19.7 (4.34)	76.4 (4.85)	4.9 (0.74)	21.6 (1.36)	73.4 (1.55)			
Rural	3.7 (0.42)	18.2 (1.07)	78.1 (1.14)	2.2 (0.67)	13.3 (2.98)	84.5 (3.18)	3.7 (0.43)	18.4 (1.09)	77.8 (1.15)			
<b>Minority enrollment</b>												
75 percent or more	6.2 (0.68)	21.9 (1.27)	71.9 (1.37)	6.6 (0.90)	19.8 (1.80)	73.6 (2.01)	6.1 (0.67)	22.7 (1.29)	71.3 (1.37)			
Less than 75 percent	4.3 (0.25)	17.5 (0.55)	78.2 (0.58)	4.6 (0.59)	19.7 (1.53)	75.7 (1.54)	4.3 (0.25)	17.4 (0.54)	78.3 (0.59)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-9.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner			Not English language learner					
	Less than 1	1-5	More than 5	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	5.9 (0.65)	19.8 (1.28)	74.3 (1.42)	4.7 (0.25)	18.7 (0.54)	76.6 (0.56)			
Alabama	4.5 (1.29)	19.3 (2.70)	76.2 (2.93)	‡ (†)	‡ (†)	‡ (†)	4.4 (1.31)	19.3 (2.69)	76.3 (2.94)			
Alaska	3.0 (1.04)	17.0 (2.16)	80.0 (2.33)	1.9 (0.92)	22.5 (4.58)	75.5 (4.73)	3.2 (1.13)	15.9 (2.23)	80.8 (2.43)			
Arizona	7.7 (1.71)	20.9 (1.98)	71.3 (2.43)	13.6 (4.98)	24.1 (5.82)	62.4 (5.85)	7.1 (1.64)	20.6 (2.14)	72.2 (2.67)			
Arkansas	3.6 (0.96)	21.6 (2.26)	74.8 (2.45)	4.0 (2.13)	26.3 (5.34)	69.8 (5.47)	3.6 (0.97)	21.2 (2.26)	75.2 (2.49)			
California	4.8 (1.09)	11.8 (2.12)	83.4 (2.48)	5.1 (1.54)	14.9 (2.83)	80.1 (3.31)	4.6 (1.07)	10.7 (2.00)	84.7 (2.37)			
Colorado	7.6 (1.29)	24.6 (2.68)	67.8 (2.99)	14.6 (3.63)	30.2 (5.89)	55.2 (6.81)	6.4 (1.18)	23.7 (2.56)	69.8 (2.69)			
Connecticut	4.6 (0.86)	17.0 (1.65)	78.4 (1.90)	5.2 (1.57)	20.8 (4.02)	74.0 (4.49)	4.6 (0.88)	16.7 (1.64)	78.7 (1.87)			
Delaware	3.1 (0.44)	20.6 (1.17)	76.3 (1.30)	3.9 (2.01)	26.4 (5.06)	69.7 (5.66)	3.1 (0.44)	20.3 (1.14)	76.6 (1.25)			
District of Columbia	10.4 (0.38)	35.6 (0.64)	54.0 (0.69)	21.0 (3.93)	27.6 (3.45)	51.4 (4.43)	9.7 (0.42)	36.2 (0.67)	54.2 (0.72)			
Florida	5.0 (1.16)	23.4 (2.12)	71.6 (2.32)	6.5 (2.62)	15.7 (2.90)	77.8 (4.14)	4.9 (1.13)	24.2 (2.27)	71.0 (2.42)			
Georgia	6.6 (1.52)	12.0 (2.44)	81.4 (2.89)	3.9 (2.01)	10.8 (4.45)	85.3 (4.67)	6.8 (1.56)	12.0 (2.47)	81.2 (2.95)			
Hawaii	3.2 (0.85)	23.6 (1.56)	73.2 (1.83)	5.0 (2.41)	31.4 (4.27)	63.6 (4.87)	3.0 (0.86)	23.0 (1.58)	73.9 (1.87)			
Idaho	5.6 (0.92)	16.5 (1.92)	77.9 (2.27)	16.0 (3.93)	18.7 (3.85)	65.4 (5.64)	5.1 (0.86)	16.4 (1.95)	78.5 (2.25)			
Illinois	3.2 (0.94)	21.2 (2.52)	75.6 (2.76)	3.5 (1.60)	20.8 (4.29)	75.8 (4.83)	3.1 (0.94)	21.3 (2.66)	75.6 (2.88)			
Indiana	4.7 (1.19)	18.9 (1.81)	76.4 (2.12)	1.2 (0.88)	22.5 (3.99)	76.2 (4.27)	5.0 (1.26)	18.6 (1.91)	76.4 (2.21)			
Iowa	5.0 (1.31)	19.6 (2.54)	75.4 (2.57)	2.6 (1.41)	32.5 (7.56)	64.9 (7.64)	5.2 (1.39)	18.7 (2.41)	76.1 (2.46)			
Kansas	6.5 (1.21)	24.4 (2.25)	69.1 (2.47)	12.5 (2.42)	25.2 (4.60)	62.3 (4.97)	5.5 (1.13)	24.2 (2.28)	70.2 (2.48)			

See notes at end of table.

TABLE B-9. Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner			Not English language learner					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
Kentucky	5.6 (1.44)	23.6 (3.57)	70.8 (3.67)	10.0 (4.23)	32.2 (7.11)	57.9 (7.13)	5.4 (1.45)	23.3 (3.60)	71.3 (3.68)			
Louisiana	4.5 (1.29)	18.9 (2.78)	76.5 (3.11)	‡ (†)	‡ (†)	‡ (†)	4.6 (1.32)	19.0 (2.77)	76.4 (3.13)			
Maine	4.0 (0.68)	14.7 (1.29)	81.4 (1.55)	4.0 (1.98)	16.7 (5.13)	79.3 (5.35)	4.0 (0.70)	14.6 (1.34)	81.4 (1.59)			
Maryland	5.4 (0.95)	20.1 (3.01)	74.5 (2.94)	1.2 (0.60)	18.7 (5.59)	80.1 (5.81)	5.8 (1.03)	20.2 (3.08)	74.0 (2.97)			
Massachusetts	5.4 (1.35)	20.0 (1.89)	74.6 (2.20)	9.2 (3.65)	25.2 (3.76)	65.5 (4.55)	5.0 (1.29)	19.5 (1.97)	75.5 (2.24)			
Michigan	2.8 (1.01)	18.2 (2.87)	78.9 (2.99)	3.5 (2.69)	22.8 (9.82)	73.6 (10.36)	2.8 (1.02)	18.0 (2.91)	79.2 (3.02)			
Minnesota	7.8 (1.96)	16.6 (1.96)	75.5 (2.38)	10.9 (4.37)	16.3 (3.29)	72.7 (4.84)	7.5 (1.92)	16.7 (2.09)	75.8 (2.50)			
Mississippi	5.4 (1.12)	29.9 (2.47)	64.7 (2.66)	‡ (†)	‡ (†)	‡ (†)	5.4 (1.12)	30.0 (2.49)	64.6 (2.70)			
Missouri	7.2 (1.48)	25.8 (2.65)	67.1 (2.86)	‡ (†)	‡ (†)	‡ (†)	7.2 (1.51)	25.8 (2.63)	67.0 (2.86)			
Montana	4.0 (0.57)	18.1 (1.06)	78.0 (1.21)	‡ (†)	‡ (†)	‡ (†)	4.0 (0.58)	18.0 (1.09)	78.1 (1.22)			
Nebraska	4.4 (1.08)	26.9 (1.80)	68.6 (2.09)	6.6 (3.26)	30.3 (5.10)	63.1 (4.51)	4.3 (1.11)	26.6 (1.80)	69.1 (2.15)			
Nevada	8.2 (1.64)	22.8 (2.17)	68.9 (2.54)	9.6 (2.55)	27.8 (2.89)	62.6 (3.93)	7.8 (1.55)	21.2 (2.21)	71.0 (2.42)			
New Hampshire	2.5 (0.66)	13.2 (1.41)	84.4 (1.51)	1.2 (1.19)	18.7 (5.49)	80.1 (5.66)	2.5 (0.67)	13.0 (1.42)	84.5 (1.53)			
New Jersey	3.2 (0.92)	19.7 (2.49)	77.1 (2.67)	‡ (†)	‡ (†)	‡ (†)	2.8 (0.84)	19.7 (2.58)	77.5 (2.75)			
New Mexico	6.3 (1.30)	23.4 (1.99)	70.3 (2.09)	6.3 (2.37)	25.0 (4.36)	68.7 (4.33)	6.3 (1.32)	23.1 (1.95)	70.7 (2.13)			
New York	2.1 (0.51)	11.7 (1.64)	86.2 (1.71)	6.4 (2.74)	20.0 (3.52)	73.7 (3.98)	1.8 (0.48)	11.1 (1.73)	87.1 (1.82)			
North Carolina	6.1 (1.30)	25.0 (2.33)	68.9 (2.58)	3.1 (1.42)	30.9 (5.76)	66.0 (5.80)	6.3 (1.37)	24.5 (2.39)	69.2 (2.64)			
North Dakota	6.6 (0.34)	23.3 (0.60)	70.1 (0.67)	‡ (†)	‡ (†)	‡ (†)	6.4 (0.35)	23.4 (0.62)	70.2 (0.72)			
Ohio	2.9 (1.35)	14.2 (2.94)	82.9 (2.99)	0.2 (0.08)	16.8 (8.27)	83.0 (8.28)	3.0 (1.40)	14.1 (2.95)	82.9 (3.00)			
Oklahoma	5.3 (1.28)	23.6 (2.35)	71.1 (2.50)	11.2 (6.10)	41.0 (5.76)	47.8 (8.36)	4.9 (1.24)	22.2 (2.33)	72.8 (2.47)			
Oregon	5.6 (1.32)	18.2 (2.28)	76.2 (2.68)	6.8 (2.70)	19.0 (4.23)	74.2 (4.86)	5.4 (1.28)	18.1 (2.27)	76.5 (2.62)			
Pennsylvania	1.1 (0.48)	14.1 (2.03)	84.8 (2.02)	# (†)	13.5 (4.70)	86.5 (4.70)	1.2 (0.50)	14.1 (2.06)	84.7 (2.04)			
Rhode Island	1.4 (0.44)	11.6 (1.31)	87.0 (1.44)	1.6 (1.14)	26.2 (5.21)	72.2 (5.46)	1.4 (0.44)	10.5 (1.24)	88.1 (1.36)			
South Carolina	6.4 (1.39)	21.8 (2.29)	71.8 (2.77)	7.0 (2.52)	24.9 (4.87)	68.1 (5.06)	6.3 (1.41)	21.6 (2.29)	72.1 (2.75)			
South Dakota	6.5 (0.89)	18.7 (1.46)	74.9 (1.48)	‡ (†)	‡ (†)	‡ (†)	6.6 (0.92)	18.2 (1.46)	75.2 (1.48)			
Tennessee	6.8 (1.58)	22.7 (2.91)	70.5 (2.77)	8.6 (5.97)	18.5 (5.89)	72.8 (6.16)	6.7 (1.55)	22.9 (2.94)	70.4 (2.83)			
Texas	5.5 (1.20)	22.6 (2.75)	71.9 (2.80)	5.7 (1.37)	21.1 (3.14)	73.2 (3.24)	5.4 (1.33)	23.0 (2.97)	71.5 (3.10)			
Utah	7.7 (1.70)	25.9 (2.52)	66.5 (2.81)	9.1 (6.28)	28.0 (6.32)	62.9 (7.54)	7.6 (1.68)	25.7 (2.53)	66.7 (2.79)			
Vermont	5.1 (0.29)	15.5 (0.60)	79.3 (0.62)	‡ (†)	‡ (†)	‡ (†)	5.1 (0.30)	15.7 (0.63)	79.2 (0.65)			
Virginia	6.6 (1.57)	18.7 (2.28)	74.7 (2.84)	5.2 (2.16)	35.7 (7.10)	59.2 (7.18)	6.7 (1.60)	17.5 (2.18)	75.8 (2.76)			
Washington	1.7 (0.69)	19.0 (2.69)	79.3 (2.61)	5.3 (2.55)	20.3 (4.05)	74.4 (4.18)	1.1 (0.54)	18.8 (2.83)	80.1 (2.78)			
West Virginia	2.5 (0.47)	20.3 (2.17)	77.2 (2.27)	‡ (†)	‡ (†)	‡ (†)	2.5 (0.48)	20.3 (2.16)	77.3 (2.28)			
Wisconsin	4.8 (1.17)	16.0 (1.93)	79.2 (2.17)	4.1 (3.17)	13.6 (4.06)	82.3 (5.49)	4.8 (1.17)	16.2 (1.95)	79.0 (2.16)			
Wyoming	6.1 (0.42)	21.6 (0.69)	72.3 (0.76)	4.4 (2.38)	27.7 (4.72)	68.0 (4.79)	6.2 (0.43)	21.4 (0.70)	72.4 (0.78)			
Department of Defense Dependents Schools	1.6 (0.17)	9.6 (0.43)	88.8 (0.47)	1.0 (0.94)	8.4 (2.46)	90.6 (2.55)	1.7 (0.16)	9.8 (0.47)	88.6 (0.51)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-10.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner Years of experience of mathematics teacher			Not English language learner Years of experience of mathematics teacher					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
<b>Nation (public)</b>	<b>4.9</b> (0.27)	<b>18.8</b> (0.55)	<b>76.3</b> (0.59)	<b>5.9</b> (0.65)	<b>19.8</b> (1.28)	<b>74.3</b> (1.42)	<b>4.7</b> (0.25)	<b>18.7</b> (0.54)	<b>76.6</b> (0.56)			
Large city	5.8 (0.60)	21.3 (1.34)	72.9 (1.33)	7.8 (1.04)	22.7 (2.23)	69.5 (2.29)	5.3 (0.59)	21.0 (1.30)	73.7 (1.31)			
Albuquerque	3.2 (1.21)	21.2 (2.18)	75.6 (2.46)	4.2 (1.94)	23.4 (3.67)	72.4 (4.28)	3.0 (1.25)	20.6 (2.58)	76.4 (2.77)			
Atlanta	1.4 (0.51)	17.8 (1.72)	80.8 (1.59)	‡ (†)	‡ (†)	‡ (†)	1.4 (0.53)	18.0 (1.80)	80.6 (1.67)			
Austin	6.7 (1.40)	32.6 (3.18)	60.7 (3.11)	9.0 (2.87)	38.1 (4.27)	52.9 (3.58)	5.4 (1.23)	29.5 (3.77)	65.1 (3.88)			
Baltimore City	14.5 (3.57)	24.7 (3.37)	60.8 (4.58)	‡ (†)	‡ (†)	‡ (†)	14.2 (3.61)	24.6 (3.28)	61.2 (4.59)			
Boston	4.8 (0.85)	22.7 (2.14)	72.5 (2.42)	5.2 (1.16)	26.1 (3.43)	68.7 (3.51)	4.6 (0.99)	21.0 (2.53)	74.4 (2.84)			
Charlotte	5.2 (1.73)	31.8 (2.42)	63.0 (3.45)	4.2 (2.21)	42.0 (5.69)	53.8 (6.19)	5.3 (1.88)	30.7 (2.38)	64.0 (3.56)			
Chicago	3.4 (1.30)	26.2 (3.18)	70.4 (3.29)	2.9 (1.45)	28.3 (4.86)	68.8 (5.27)	3.5 (1.41)	25.9 (3.44)	70.7 (3.54)			
Cleveland	5.6 (0.39)	1.8 (0.30)	92.6 (0.48)	5.5 (1.85)	# (†)	94.5 (1.85)	5.6 (0.43)	1.9 (0.33)	92.4 (0.52)			
Dallas	13.9 (3.52)	23.0 (4.22)	63.1 (4.42)	18.1 (4.55)	20.5 (4.76)	61.4 (5.45)	9.5 (3.66)	25.6 (6.80)	64.8 (7.01)			
Detroit	4.5 (1.36)	6.3 (2.24)	89.2 (2.46)	9.2 (3.79)	4.7 (2.78)	86.2 (4.58)	3.5 (1.44)	6.7 (2.59)	89.8 (2.86)			
District of Columbia (DCPS)	9.3 (0.45)	30.3 (0.76)	60.4 (0.86)	23.6 (4.77)	17.0 (3.63)	59.4 (5.19)	8.2 (0.48)	31.3 (0.80)	60.4 (0.91)			
Fresno	7.4 (1.51)	10.7 (1.83)	81.9 (2.31)	9.1 (2.56)	9.4 (2.15)	81.6 (3.02)	6.8 (1.58)	11.2 (2.05)	82.0 (2.53)			
Hillsborough County (FL)	4.0 (1.77)	26.5 (4.06)	69.5 (4.07)	5.2 (2.09)	20.5 (5.54)	74.3 (6.31)	3.8 (1.86)	27.3 (4.47)	68.9 (4.36)			
Houston	9.3 (2.41)	29.8 (3.24)	60.9 (4.01)	10.5 (2.94)	31.4 (4.03)	58.1 (4.73)	8.5 (2.57)	28.7 (3.63)	62.8 (4.23)			
Jefferson County (KY)	9.6 (2.48)	22.5 (4.12)	67.9 (4.40)	7.8 (4.48)	26.6 (7.72)	65.6 (7.54)	9.8 (2.63)	22.1 (4.02)	68.2 (4.42)			
Los Angeles	1.8 (0.95)	3.4 (1.25)	94.8 (1.52)	1.6 (1.34)	4.6 (1.82)	93.8 (2.28)	1.9 (1.15)	2.9 (1.49)	95.2 (1.80)			
Miami-Dade	# (†)	20.9 (3.20)	79.1 (3.20)	# (†)	14.5 (3.00)	85.5 (3.00)	# (†)	22.4 (3.40)	77.6 (3.40)			
New York City	5.5 (1.35)	18.7 (2.77)	75.8 (3.17)	10.5 (4.22)	22.8 (4.72)	66.7 (4.82)	4.8 (1.30)	18.0 (2.95)	77.2 (3.37)			
Philadelphia	0.3 (0.21)	6.0 (1.99)	93.7 (1.99)	# (†)	6.9 (4.10)	93.1 (4.10)	0.3 (0.24)	5.9 (2.08)	93.8 (2.08)			
San Diego	2.6 (1.07)	10.9 (2.83)	86.5 (3.08)	4.9 (2.11)	16.0 (4.65)	79.1 (5.14)	1.3 (0.62)	8.2 (2.51)	90.6 (2.56)			
Duval County (FL)	2.9 (1.12)	17.7 (3.40)	79.3 (3.62)	‡ (†)	‡ (†)	‡ (†)	3.0 (1.16)	16.9 (3.41)	80.1 (3.64)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-11.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)										
	Years of experience of mathematics teacher			National School Lunch Program, eligible Years of experience of mathematics teacher			National School Lunch Program, not eligible Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	5.6 (0.39)	20.4 (0.68)	74.0 (0.74)	3.9 (0.23)	16.9 (0.62)	79.2 (0.66)		
<b>Location</b>											
City	6.0 (0.43)	20.6 (1.03)	73.3 (0.98)	6.7 (0.56)	21.5 (1.11)	71.8 (1.00)	4.6 (0.41)	18.8 (1.41)	76.6 (1.46)		
Suburban	4.5 (0.43)	17.0 (0.82)	78.5 (0.92)	5.6 (0.72)	19.5 (1.18)	74.9 (1.35)	3.6 (0.36)	15.0 (0.83)	81.4 (0.93)		
Town	4.9 (0.72)	21.5 (1.36)	73.7 (1.50)	4.9 (0.91)	22.2 (1.57)	72.8 (1.73)	4.7 (0.62)	19.9 (1.63)	75.4 (1.69)		
Rural	3.7 (0.42)	18.2 (1.07)	78.1 (1.14)	4.0 (0.50)	18.6 (1.18)	77.5 (1.26)	3.4 (0.49)	18.0 (1.31)	78.6 (1.41)		
<b>Minority enrollment</b>											
75 percent or more	6.2 (0.68)	21.9 (1.27)	71.9 (1.37)	6.5 (0.73)	21.8 (1.24)	71.7 (1.34)	4.9 (0.79)	22.7 (2.63)	72.4 (2.71)		
Less than 75 percent	4.3 (0.25)	17.5 (0.55)	78.2 (0.58)	5.0 (0.36)	19.2 (0.69)	75.8 (0.73)	3.8 (0.27)	16.2 (0.62)	80.0 (0.67)		

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-12.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and state: 2015

State	(Standard errors in parentheses)										
	Years of experience of mathematics teacher			National School Lunch Program, eligible Years of experience of mathematics teacher			National School Lunch Program, not eligible Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	5.6 (0.39)	20.4 (0.68)	74.0 (0.74)	3.9 (0.23)	16.9 (0.62)	79.2 (0.66)		
Alabama	4.5 (1.29)	19.3 (2.70)	76.2 (2.93)	5.0 (1.62)	17.0 (2.93)	77.9 (3.41)	3.7 (1.27)	22.8 (3.26)	73.5 (3.28)		
Alaska	3.0 (1.04)	17.0 (2.16)	80.0 (2.33)	3.1 (1.20)	17.5 (2.89)	79.4 (3.12)	3.0 (1.02)	16.7 (2.46)	80.3 (2.60)		
Arizona	7.7 (1.71)	20.9 (1.98)	71.3 (2.43)	9.2 (2.21)	24.4 (2.46)	66.4 (2.94)	4.8 (1.68)	13.6 (2.44)	81.5 (3.00)		
Arkansas	3.6 (0.96)	21.6 (2.26)	74.8 (2.45)	4.1 (1.11)	23.2 (2.34)	72.8 (2.59)	2.7 (0.95)	18.2 (2.81)	79.2 (2.96)		
California	4.8 (1.09)	11.8 (2.12)	83.4 (2.48)	5.5 (1.56)	11.6 (2.22)	82.9 (2.84)	3.7 (1.07)	12.5 (2.84)	83.8 (3.02)		
Colorado	7.6 (1.29)	24.6 (2.68)	67.8 (2.99)	9.8 (1.77)	27.6 (3.98)	62.6 (4.47)	5.5 (1.42)	22.2 (2.39)	72.4 (2.73)		
Connecticut	4.6 (0.86)	17.0 (1.65)	78.4 (1.90)	6.0 (1.21)	20.0 (2.95)	73.9 (3.14)	3.7 (0.86)	15.2 (1.73)	81.1 (1.91)		
Delaware	3.1 (0.44)	20.6 (1.17)	76.3 (1.30)	2.8 (0.60)	22.3 (1.51)	74.9 (1.64)	3.3 (0.53)	19.5 (1.41)	77.2 (1.49)		
District of Columbia	10.4 (0.38)	35.6 (0.64)	54.0 (0.69)	11.7 (0.47)	33.3 (0.84)	55.0 (0.87)	6.3 (0.92)	42.7 (1.67)	51.0 (1.88)		
Florida	5.0 (1.16)	23.4 (2.12)	71.6 (2.32)	5.7 (1.32)	24.9 (2.32)	69.4 (2.56)	3.8 (1.09)	21.2 (2.73)	75.0 (2.80)		
Georgia	6.6 (1.52)	12.0 (2.44)	81.4 (2.89)	7.8 (2.01)	11.4 (2.72)	80.8 (3.32)	4.7 (1.62)	12.2 (3.87)	83.1 (4.64)		
Hawaii	3.2 (0.85)	23.6 (1.56)	73.2 (1.83)	3.3 (1.13)	23.9 (1.80)	72.8 (1.93)	3.0 (1.13)	23.2 (2.05)	73.8 (2.66)		
Idaho	5.6 (0.92)	16.5 (1.92)	77.9 (2.27)	6.5 (1.30)	18.3 (2.45)	75.2 (3.08)	4.6 (1.07)	14.4 (2.19)	81.1 (2.40)		
Illinois	3.2 (0.94)	21.2 (2.52)	75.6 (2.76)	4.2 (1.06)	24.6 (2.57)	71.2 (2.84)	1.9 (0.92)	17.2 (3.39)	80.9 (3.56)		
Indiana	4.7 (1.19)	18.9 (1.81)	76.4 (2.12)	5.9 (1.65)	17.5 (1.94)	76.6 (2.41)	3.5 (1.08)	20.3 (2.31)	76.1 (2.50)		
Iowa	5.0 (1.31)	19.6 (2.54)	75.4 (2.57)	5.8 (1.58)	22.9 (3.42)	71.4 (3.37)	4.5 (1.34)	17.1 (2.45)	78.4 (2.72)		

See notes at end of table.

**TABLE B-12.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and state: 2015—Continued

State	(Standard errors in parentheses)										
	Years of experience of mathematics teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible				
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	More than 5
Kansas	6.5 (1.21)	24.4 (2.25)	69.1 (2.47)	8.2 (1.57)	26.0 (2.67)	65.8 (2.91)	4.4 (1.19)	22.4 (2.82)	73.2 (3.05)		
Kentucky	5.6 (1.44)	23.6 (3.57)	70.8 (3.67)	5.6 (1.41)	27.7 (3.86)	66.6 (3.93)	5.5 (1.96)	17.0 (3.39)	77.5 (3.90)		
Louisiana	4.5 (1.29)	18.9 (2.78)	76.5 (3.11)	4.6 (1.49)	21.1 (3.27)	74.3 (3.63)	4.4 (1.48)	14.1 (3.21)	81.5 (3.40)		
Maine	4.0 (0.68)	14.7 (1.29)	81.4 (1.55)	4.8 (0.95)	14.6 (1.55)	80.6 (2.00)	3.2 (0.72)	14.8 (1.53)	82.0 (1.66)		
Maryland	5.4 (0.95)	20.1 (3.01)	74.5 (2.94)	6.2 (1.17)	21.9 (3.27)	71.9 (3.42)	4.8 (1.34)	18.6 (3.31)	76.6 (3.25)		
Massachusetts	5.4 (1.35)	20.0 (1.89)	74.6 (2.20)	5.8 (1.73)	23.1 (2.53)	71.1 (2.93)	5.2 (1.53)	17.8 (2.33)	77.0 (2.67)		
Michigan	2.8 (1.01)	18.2 (2.87)	78.9 (2.99)	3.8 (1.42)	21.7 (3.72)	74.5 (4.00)	2.0 (0.83)	15.1 (3.03)	82.9 (3.09)		
Minnesota	7.8 (1.96)	16.6 (1.96)	75.5 (2.38)	9.1 (2.65)	18.1 (2.27)	72.8 (2.87)	6.9 (1.77)	15.7 (2.38)	77.3 (2.62)		
Mississippi	5.4 (1.12)	29.9 (2.47)	64.7 (2.66)	5.5 (1.41)	30.0 (2.65)	64.5 (2.97)	5.3 (1.20)	29.4 (3.29)	65.3 (3.49)		
Missouri	7.2 (1.48)	25.8 (2.65)	67.1 (2.86)	9.1 (2.17)	30.3 (3.62)	60.6 (3.89)	4.9 (0.98)	20.5 (2.52)	74.6 (2.61)		
Montana	4.0 (0.57)	18.1 (1.06)	78.0 (1.21)	2.9 (0.62)	20.2 (1.42)	76.9 (1.56)	4.9 (0.77)	16.4 (1.37)	78.8 (1.50)		
Nebraska	4.4 (1.08)	26.9 (1.80)	68.6 (2.09)	4.6 (1.14)	27.2 (2.34)	68.1 (2.61)	4.3 (1.25)	26.5 (2.05)	69.2 (2.32)		
Nevada	8.2 (1.64)	22.8 (2.17)	68.9 (2.54)	10.5 (2.28)	27.2 (2.79)	62.3 (3.26)	4.8 (1.47)	16.0 (2.34)	79.2 (2.61)		
New Hampshire	2.5 (0.66)	13.2 (1.41)	84.4 (1.51)	3.3 (1.15)	15.8 (2.24)	80.9 (2.39)	2.0 (0.56)	12.5 (1.47)	85.5 (1.54)		
New Jersey	3.2 (0.92)	19.7 (2.49)	77.1 (2.67)	2.5 (0.99)	24.6 (4.03)	72.9 (4.06)	3.9 (1.26)	16.1 (2.65)	80.0 (3.07)		
New Mexico	6.3 (1.30)	23.4 (1.99)	70.3 (2.09)	5.8 (1.33)	25.3 (2.35)	68.8 (2.37)	6.5 (1.85)	17.2 (2.67)	76.3 (3.00)		
New York	2.1 (0.51)	11.7 (1.64)	86.2 (1.71)	3.0 (0.71)	13.7 (1.72)	83.3 (1.83)	1.0 (0.44)	9.8 (2.67)	89.2 (2.74)		
North Carolina	6.1 (1.30)	25.0 (2.33)	68.9 (2.58)	6.2 (1.49)	26.1 (2.86)	67.7 (3.13)	5.7 (1.57)	23.5 (3.09)	70.8 (3.58)		
North Dakota	6.6 (0.34)	23.3 (0.60)	70.1 (0.67)	6.9 (0.82)	25.6 (1.41)	67.6 (1.61)	6.4 (0.39)	22.2 (0.76)	71.4 (0.85)		
Ohio	2.9 (1.35)	14.2 (2.94)	82.9 (2.99)	3.5 (1.50)	16.5 (3.99)	80.1 (4.19)	2.5 (1.39)	11.2 (2.81)	86.3 (2.66)		
Oklahoma	5.3 (1.28)	23.6 (2.35)	71.1 (2.50)	7.0 (1.80)	25.9 (2.78)	67.1 (2.97)	2.8 (1.30)	20.1 (3.25)	77.1 (3.43)		
Oregon	5.6 (1.32)	18.2 (2.28)	76.2 (2.68)	5.1 (1.38)	20.0 (2.61)	74.8 (3.02)	6.4 (1.61)	15.0 (2.99)	78.6 (3.31)		
Pennsylvania	1.1 (0.48)	14.1 (2.03)	84.8 (2.02)	2.0 (0.88)	16.2 (2.98)	81.8 (3.12)	0.4 (0.23)	12.1 (2.22)	87.5 (2.22)		
Rhode Island	1.4 (0.44)	11.6 (1.31)	87.0 (1.44)	2.0 (0.69)	14.7 (1.99)	83.3 (2.19)	0.9 (0.35)	8.9 (1.19)	90.2 (1.22)		
South Carolina	6.4 (1.39)	21.8 (2.29)	71.8 (2.77)	7.4 (1.77)	24.0 (2.66)	68.7 (3.22)	4.8 (1.47)	18.3 (2.84)	76.9 (3.36)		
South Dakota	6.5 (0.89)	18.7 (1.46)	74.9 (1.48)	7.0 (1.07)	20.5 (1.84)	72.5 (1.83)	6.1 (0.99)	17.0 (1.70)	76.9 (1.72)		
Tennessee	6.8 (1.58)	22.7 (2.91)	70.5 (2.77)	6.7 (1.68)	24.9 (3.39)	68.4 (3.24)	6.9 (1.99)	20.0 (3.32)	73.2 (3.29)		
Texas	5.5 (1.20)	22.6 (2.75)	71.9 (2.80)	6.2 (1.52)	22.8 (3.00)	71.0 (2.87)	4.3 (1.09)	22.4 (3.59)	73.3 (3.85)		
Utah	7.7 (1.70)	25.9 (2.52)	66.5 (2.81)	7.8 (2.60)	26.3 (3.32)	65.9 (4.09)	7.8 (1.83)	25.2 (2.67)	67.0 (2.96)		
Vermont	5.1 (0.29)	15.5 (0.60)	79.3 (0.62)	7.2 (0.64)	19.3 (1.08)	73.6 (1.21)	3.7 (0.46)	12.9 (0.80)	83.4 (0.96)		
Virginia	6.6 (1.57)	18.7 (2.28)	74.7 (2.84)	6.9 (1.75)	23.4 (3.04)	69.7 (3.56)	6.3 (1.65)	15.4 (2.49)	78.3 (3.07)		
Washington	1.7 (0.69)	19.0 (2.69)	79.3 (2.61)	2.1 (1.04)	21.3 (3.21)	76.5 (2.94)	1.3 (0.70)	16.6 (2.98)	82.1 (3.01)		
West Virginia	2.5 (0.47)	20.3 (2.17)	77.2 (2.27)	3.1 (0.61)	21.5 (2.35)	75.4 (2.51)	0.9 (0.45)	17.0 (2.93)	82.1 (2.95)		
Wisconsin	4.8 (1.17)	16.0 (1.93)	79.2 (2.17)	5.8 (2.01)	19.6 (2.79)	74.6 (2.80)	3.6 (1.00)	13.5 (2.14)	82.9 (2.36)		
Wyoming	6.1 (0.42)	21.6 (0.69)	72.3 (0.76)	5.7 (0.70)	23.6 (1.26)	70.7 (1.47)	6.5 (0.57)	20.2 (0.96)	73.3 (1.03)		
Department of Defense Dependents Schools	1.6 (0.17)	9.6 (0.43)	88.8 (0.47)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-13.** Percentage of 4th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)										
	Years of experience of mathematics teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.27)	18.8 (0.55)	76.3 (0.59)	5.6 (0.39)	20.4 (0.68)	74.0 (0.74)	3.9 (0.23)	16.9 (0.62)	79.2 (0.66)		
Large city	5.8 (0.60)	21.3 (1.34)	72.9 (1.33)	6.5 (0.71)	21.6 (1.23)	71.8 (1.17)	3.6 (0.52)	20.3 (2.21)	76.1 (2.34)		
Albuquerque	3.2 (1.21)	21.2 (2.18)	75.6 (2.46)	3.8 (1.33)	24.3 (2.36)	71.9 (2.69)	2.2 (1.37)	15.8 (3.30)	82.0 (3.50)		
Atlanta	1.4 (0.51)	17.8 (1.72)	80.8 (1.59)	1.9 (0.70)	19.7 (2.12)	78.5 (1.93)	# (†)	12.9 (2.16)	87.1 (2.16)		
Austin	6.7 (1.40)	32.6 (3.18)	60.7 (3.11)	8.6 (1.98)	42.9 (3.56)	48.4 (3.32)	3.6 (1.27)	16.2 (3.55)	80.3 (3.80)		
Baltimore City	14.5 (3.57)	24.7 (3.37)	60.8 (4.58)	14.6 (3.41)	25.2 (3.58)	60.2 (4.64)	13.5 (5.36)	23.0 (4.18)	63.6 (6.16)		
Boston	4.8 (0.85)	22.7 (2.14)	72.5 (2.42)	4.8 (0.85)	22.7 (2.14)	72.5 (2.42)	‡ (†)	‡ (†)	‡ (†)		
Charlotte	5.2 (1.73)	31.8 (2.42)	63.0 (3.45)	4.4 (1.26)	36.7 (3.34)	58.9 (3.94)	5.4 (2.58)	22.8 (3.43)	71.8 (4.98)		
Chicago	3.4 (1.30)	26.2 (3.18)	70.4 (3.29)	4.0 (1.53)	27.5 (3.54)	68.5 (3.70)	0.4 (0.40)	20.1 (4.91)	79.6 (4.90)		
Cleveland	5.6 (0.39)	1.8 (0.30)	92.6 (0.48)	5.6 (0.39)	1.8 (0.30)	92.6 (0.48)	‡ (†)	‡ (†)	‡ (†)		
Dallas	13.9 (3.52)	23.0 (4.22)	63.1 (4.42)	13.8 (3.51)	23.7 (4.36)	62.5 (4.57)	15.1 (6.60)	17.3 (8.05)	67.6 (9.88)		
Detroit	4.5 (1.36)	6.3 (2.24)	89.2 (2.46)	5.6 (1.67)	6.2 (2.27)	88.1 (2.58)	1.1 (0.74)	6.7 (3.05)	92.2 (3.05)		
District of Columbia (DCPS)	9.3 (0.45)	30.3 (0.76)	60.4 (0.86)	10.6 (0.61)	28.1 (0.79)	61.2 (0.92)	5.7 (1.04)	36.2 (2.02)	58.1 (2.30)		
Fresno	7.4 (1.51)	10.7 (1.83)	81.9 (2.31)	7.9 (1.62)	10.4 (1.83)	81.7 (2.39)	# (†)	15.5 (9.66)	84.5 (9.66)		
Hillsborough County (FL)	4.0 (1.77)	26.5 (4.06)	69.5 (4.07)	4.9 (2.61)	26.4 (4.07)	68.7 (4.00)	2.7 (1.86)	26.7 (6.24)	70.5 (6.43)		
Houston	9.3 (2.41)	29.8 (3.24)	60.9 (4.01)	10.5 (2.87)	29.9 (3.72)	59.6 (4.55)	4.8 (1.76)	29.0 (4.61)	66.2 (4.83)		
Jefferson County (KY)	9.6 (2.48)	22.5 (4.12)	67.9 (4.40)	10.6 (3.01)	26.3 (4.73)	63.1 (4.94)	7.0 (1.82)	12.9 (3.79)	80.1 (4.06)		
Los Angeles	1.8 (0.95)	3.4 (1.25)	94.8 (1.52)	1.1 (0.66)	2.8 (1.04)	96.1 (1.24)	6.8 (4.77)	7.2 (6.64)	86.1 (6.71)		
Miami-Dade	# (†)	20.9 (3.20)	79.1 (3.20)	# (†)	21.0 (3.74)	79.0 (3.74)	# (†)	20.9 (4.15)	79.1 (4.15)		
New York City	5.5 (1.35)	18.7 (2.77)	75.8 (3.17)	5.3 (1.32)	17.7 (2.64)	77.0 (2.98)	6.7 (2.81)	23.5 (8.29)	69.9 (8.61)		
Philadelphia	0.3 (0.21)	6.0 (1.99)	93.7 (1.99)	0.3 (0.21)	7.0 (2.36)	92.7 (2.37)	0.4 (0.38)	3.5 (1.47)	96.1 (1.51)		
San Diego	2.6 (1.07)	10.9 (2.83)	86.5 (3.08)	3.7 (1.57)	15.5 (4.17)	80.8 (4.49)	0.3 (0.31)	2.0 (1.12)	97.7 (1.13)		
Duval County (FL)	2.9 (1.12)	17.7 (3.40)	79.3 (3.62)	4.0 (1.74)	21.1 (4.92)	74.9 (5.34)	1.7 (0.85)	14.2 (2.65)	84.1 (2.56)		

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-14.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and selected school characteristics: 2015

(Standard errors in parentheses)								
School characteristic	Years of experience of reading teacher			White				
	Less than 1	1-5	More than 5	Years of experience of reading teacher				
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	4.0 (0.25)	18.3 (0.50)	77.7 (0.58)		
Location								
City	5.9 (0.38)	20.6 (0.95)	73.5 (0.99)	5.0 (0.44)	19.6 (0.95)	75.5 (1.00)		
Suburban	4.5 (0.43)	17.8 (0.79)	77.8 (0.94)	3.3 (0.34)	17.0 (0.85)	79.7 (0.88)		
Town	4.3 (0.49)	23.3 (1.42)	72.4 (1.53)	4.1 (0.48)	21.1 (1.16)	74.7 (1.30)		
Rural	4.7 (0.66)	18.3 (0.99)	77.0 (1.25)	4.5 (0.73)	18.0 (0.95)	77.5 (1.25)		
Minority enrollment								
75 percent or more	6.5 (0.66)	21.6 (1.06)	72.0 (1.26)	5.2 (0.89)	22.5 (2.33)	72.4 (2.39)		
Less than 75 percent	4.3 (0.29)	18.4 (0.52)	77.3 (0.60)	4.0 (0.28)	18.1 (0.52)	78.0 (0.62)		
School characteristic	Black			Hispanic				
	Less than 1	1-5	More than 5	Years of experience of reading teacher				
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	6.2 (0.51)	23.5 (0.94)	70.3 (1.03)	5.9 (0.61)	19.4 (0.91)	74.7 (1.15)		
Location								
City	7.3 (0.80)	25.1 (1.46)	67.6 (1.51)	5.4 (0.54)	19.5 (1.43)	75.0 (1.55)		
Suburban	5.1 (0.81)	20.8 (1.37)	74.1 (1.51)	6.6 (1.20)	18.3 (1.43)	75.1 (1.92)		
Town	5.4 (1.33)	28.1 (3.68)	66.5 (3.52)	4.6 (1.24)	27.8 (4.59)	67.6 (4.67)		
Rural	5.9 (1.03)	22.5 (2.29)	71.5 (2.21)	5.7 (1.63)	15.9 (3.54)	78.4 (4.75)		
Minority enrollment								
75 percent or more	6.7 (0.71)	24.8 (1.28)	68.5 (1.48)	6.8 (0.96)	20.1 (1.49)	73.1 (1.76)		
Less than 75 percent	5.6 (0.67)	21.8 (1.06)	72.5 (1.25)	4.5 (0.46)	18.4 (0.90)	77.0 (1.01)		
School characteristic	Asian			Pacific Islander				
	Less than 1	1-5	More than 5	Years of experience of reading teacher				
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	5.2 (0.62)	15.8 (1.40)	79.0 (1.62)	3.9 (1.34)	23.3 (4.19)	72.8 (4.43)		
Location								
City	6.6 (0.82)	15.7 (2.55)	77.7 (2.81)	2.3 (0.99)	29.1 (8.60)	68.6 (8.49)		
Suburban	4.3 (1.09)	15.5 (1.61)	80.2 (2.08)	6.5 (2.70)	18.3 (3.48)	75.2 (5.50)		
Town	0.9 (0.62)	16.3 (3.87)	82.8 (3.71)	1.2 (1.15)	26.3 (7.17)	72.5 (7.16)		
Rural	3.0 (1.79)	20.4 (4.36)	76.6 (4.80)	1.9 (1.43)	10.8 (3.99)	87.3 (4.34)		
Minority enrollment								
75 percent or more	4.6 (1.76)	17.3 (2.88)	78.1 (3.76)	5.6 (2.21)	26.1 (5.68)	68.3 (6.16)		
Less than 75 percent	5.6 (1.01)	15.0 (1.17)	79.4 (1.54)	1.9 (0.96)	19.9 (6.00)	78.2 (6.10)		
School characteristic	American Indian/Alaska Native			Two or more races				
	Less than 1	1-5	More than 5	Years of experience of reading teacher				
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	5.3 (0.94)	19.4 (1.92)	75.3 (1.96)	5.3 (0.68)	20.2 (1.03)	74.4 (1.13)		
Location								
City	8.5 (2.44)	16.1 (2.77)	75.3 (3.18)	7.9 (1.56)	21.2 (1.81)	70.9 (1.95)		
Suburban	5.4 (2.72)	12.9 (2.91)	81.6 (3.90)	4.2 (0.86)	18.0 (1.61)	77.8 (1.80)		
Town	3.1 (0.97)	27.7 (6.15)	69.1 (6.02)	4.5 (1.32)	23.7 (3.35)	71.8 (3.65)		
Rural	5.0 (1.68)	18.7 (2.35)	76.3 (2.33)	4.1 (0.93)	21.5 (2.76)	74.4 (2.79)		
Minority enrollment								
75 percent or more	5.9 (1.58)	23.6 (4.27)	70.5 (4.21)	6.3 (1.73)	18.9 (2.41)	74.8 (2.99)		
Less than 75 percent	4.9 (1.20)	17.1 (2.03)	78.0 (2.16)	5.2 (0.73)	20.4 (1.21)	74.4 (1.32)		

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-15.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015

(Standard errors in parentheses)								
State	Years of experience of reading teacher			White				
	Years of experience of reading teacher			Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	<b>4.9 (0.26)</b>	<b>19.3 (0.46)</b>	<b>75.8 (0.54)</b>	<b>4.0 (0.25)</b>	<b>18.3 (0.50)</b>	<b>77.7 (0.58)</b>		
Alabama	5.2 (1.22)	18.5 (2.59)	76.4 (2.70)	3.3 (0.87)	19.9 (3.34)	76.8 (3.27)		
Alaska	3.0 (1.12)	18.4 (2.26)	78.6 (2.49)	2.2 (0.86)	14.1 (2.41)	83.7 (2.58)		
Arizona	7.8 (1.67)	23.7 (2.40)	68.5 (2.76)	4.7 (1.32)	21.6 (3.54)	73.8 (3.73)		
Arkansas	4.9 (1.32)	20.0 (2.26)	75.1 (2.43)	3.4 (1.01)	17.1 (2.48)	79.4 (2.88)		
California	4.9 (1.10)	11.5 (2.06)	83.6 (2.45)	3.7 (1.01)	9.4 (2.37)	86.9 (2.55)		
Colorado	8.4 (1.67)	24.1 (2.44)	67.5 (2.74)	6.5 (1.89)	21.2 (2.36)	72.4 (2.76)		
Connecticut	4.4 (0.84)	15.1 (1.79)	80.5 (1.95)	3.8 (1.00)	14.6 (2.17)	81.6 (2.35)		
Delaware	4.5 (0.67)	21.4 (1.31)	74.1 (1.46)	4.3 (0.78)	17.7 (1.70)	78.0 (1.77)		
District of Columbia	8.7 (0.41)	33.8 (0.75)	57.4 (0.79)	7.3 (1.38)	37.5 (3.28)	55.2 (3.29)		
Florida	4.7 (1.11)	26.2 (2.59)	69.0 (2.72)	3.1 (0.77)	24.8 (2.79)	72.1 (2.84)		
Georgia	6.0 (1.67)	21.4 (3.14)	72.6 (3.52)	5.2 (1.57)	18.3 (3.47)	76.5 (4.04)		
Hawaii	3.6 (0.78)	22.5 (1.52)	74.0 (1.81)	0.4 (0.42)	22.1 (3.09)	77.5 (3.17)		
Idaho	4.8 (0.81)	19.3 (1.98)	75.9 (2.21)	4.8 (0.91)	18.1 (2.01)	77.1 (2.27)		
Illinois	2.4 (0.64)	18.7 (2.16)	78.9 (2.24)	1.9 (0.83)	18.4 (3.46)	79.6 (3.49)		
Indiana	3.6 (0.90)	19.7 (1.92)	76.7 (2.07)	3.9 (1.04)	18.7 (2.03)	77.4 (2.40)		
Iowa	4.2 (1.05)	21.0 (2.36)	74.7 (2.48)	3.8 (1.04)	18.7 (2.04)	77.5 (2.18)		
Kansas	6.3 (1.34)	21.6 (2.22)	72.0 (2.62)	4.9 (1.17)	21.3 (2.42)	73.8 (2.83)		
Kentucky	6.1 (1.52)	18.8 (2.95)	75.2 (3.30)	5.3 (1.74)	17.8 (3.08)	76.9 (3.52)		
Louisiana	4.0 (1.12)	20.7 (2.57)	75.3 (2.79)	2.6 (0.91)	17.8 (3.04)	79.6 (3.24)		
Maine	4.1 (0.66)	15.1 (1.37)	80.8 (1.49)	4.0 (0.63)	14.3 (1.44)	81.7 (1.57)		
Maryland	5.1 (1.09)	19.9 (2.89)	75.0 (2.87)	4.4 (1.21)	19.4 (3.23)	76.2 (3.04)		
Massachusetts	3.9 (0.92)	18.2 (1.98)	77.9 (2.10)	3.3 (0.90)	15.7 (2.22)	81.0 (2.26)		
Michigan	2.1 (0.78)	17.2 (2.57)	80.7 (2.66)	2.3 (0.93)	13.9 (2.54)	83.9 (2.67)		
Minnesota	8.4 (1.86)	17.9 (2.31)	73.7 (2.68)	6.8 (1.75)	16.4 (2.61)	76.8 (2.96)		
Mississippi	11.7 (1.87)	27.3 (2.33)	61.0 (2.51)	10.9 (2.08)	29.0 (2.74)	60.1 (2.33)		
Missouri	8.8 (1.86)	24.9 (2.33)	66.3 (2.77)	8.7 (1.93)	22.1 (2.48)	69.2 (2.96)		
Montana	4.1 (0.66)	18.5 (1.24)	77.5 (1.36)	4.2 (0.70)	17.5 (1.33)	78.3 (1.48)		
Nebraska	4.2 (1.04)	27.1 (1.73)	68.7 (1.93)	4.6 (1.22)	25.8 (1.84)	69.6 (2.11)		
Nevada	7.9 (1.65)	21.7 (1.94)	70.4 (2.25)	4.1 (1.22)	16.9 (2.42)	79.0 (2.65)		
New Hampshire	2.4 (0.57)	12.1 (1.27)	85.6 (1.37)	2.6 (0.64)	12.4 (1.35)	85.0 (1.44)		
New Jersey	4.6 (1.25)	17.6 (1.95)	77.8 (2.27)	4.3 (1.47)	14.6 (2.71)	81.1 (3.43)		
New Mexico	6.4 (1.31)	21.9 (1.76)	71.8 (1.88)	5.7 (1.77)	21.3 (2.30)	73.0 (2.66)		
New York	2.3 (0.74)	13.8 (1.86)	83.9 (1.90)	1.6 (1.13)	10.2 (2.55)	88.2 (2.48)		
North Carolina	5.7 (1.21)	26.1 (2.53)	68.2 (2.44)	5.6 (1.54)	24.4 (2.91)	70.0 (2.93)		
North Dakota	5.9 (0.44)	22.6 (0.75)	71.5 (0.68)	5.7 (0.49)	22.5 (0.86)	71.9 (0.75)		
Ohio	1.4 (0.67)	17.0 (2.55)	81.5 (2.57)	1.6 (0.81)	17.4 (2.97)	80.9 (2.98)		
Oklahoma	5.7 (1.43)	24.8 (2.64)	69.5 (3.13)	4.2 (1.27)	23.9 (2.80)	71.9 (3.13)		
Oregon	6.0 (1.23)	18.5 (2.31)	75.5 (2.78)	6.0 (1.36)	19.0 (2.32)	74.9 (2.84)		
Pennsylvania	1.6 (0.74)	18.3 (2.37)	80.1 (2.22)	1.0 (0.70)	17.7 (2.67)	81.4 (2.50)		
Rhode Island	2.3 (0.59)	12.1 (1.30)	85.6 (1.44)	2.5 (0.76)	9.1 (1.27)	88.4 (1.48)		
South Carolina	6.5 (1.55)	22.9 (2.62)	70.6 (3.24)	5.5 (1.46)	21.4 (3.33)	73.1 (3.96)		
South Dakota	6.5 (0.79)	19.1 (1.32)	74.4 (1.35)	6.6 (0.91)	17.4 (1.41)	76.0 (1.46)		
Tennessee	7.8 (1.86)	24.2 (2.58)	68.0 (2.92)	5.9 (1.77)	22.1 (2.80)	72.0 (2.95)		
Texas	6.2 (1.43)	19.4 (2.28)	74.4 (2.62)	6.4 (3.45)	17.3 (2.82)	76.2 (4.04)		
Utah	5.7 (1.28)	26.5 (2.55)	67.9 (2.83)	5.3 (1.23)	27.0 (2.65)	67.7 (2.90)		
Vermont	5.3 (0.33)	17.6 (0.66)	77.1 (0.69)	4.8 (0.39)	17.8 (0.68)	77.4 (0.72)		
Virginia	5.6 (1.26)	24.8 (2.62)	69.6 (2.75)	4.5 (1.33)	24.4 (2.96)	71.0 (3.32)		
Washington	2.9 (1.14)	19.4 (2.74)	77.7 (2.77)	1.6 (0.83)	20.0 (3.18)	78.4 (3.09)		
West Virginia	3.4 (0.81)	21.8 (2.13)	74.8 (2.37)	3.7 (0.90)	21.4 (2.16)	74.9 (2.44)		
Wisconsin	4.6 (1.24)	17.7 (2.12)	77.8 (2.38)	3.0 (0.83)	18.2 (2.38)	78.8 (2.37)		
Wyoming	5.8 (0.40)	20.3 (0.78)	73.9 (0.89)	6.2 (0.51)	20.0 (0.91)	73.8 (1.01)		
Department of Defense Dependents Schools	1.5 (0.15)	10.6 (0.45)	87.9 (0.47)	1.2 (0.34)	9.2 (0.81)	89.6 (0.89)		

See notes at end of table.

**TABLE B-15.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Black			Hispanic					
	Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
<b>Nation (public)</b>	<b>6.2 (0.51)</b>	<b>23.5 (0.94)</b>	<b>70.3 (1.03)</b>	<b>5.9 (0.61)</b>	<b>19.4 (0.91)</b>	<b>74.7 (1.15)</b>			
Alabama	8.3 (2.36)	15.1 (2.72)	76.6 (3.87)	6.2 (3.19)	16.6 (3.35)	77.2 (4.84)			
Alaska	‡ (†)	‡ (†)	‡ (†)	5.5 (2.98)	17.8 (3.95)	76.7 (5.08)			
Arizona	12.0 (3.51)	18.7 (4.02)	69.3 (5.41)	10.0 (2.68)	25.1 (3.02)	64.9 (3.53)			
Arkansas	9.4 (3.60)	26.1 (4.73)	64.4 (4.65)	4.7 (1.97)	22.8 (4.02)	72.5 (3.98)			
California	3.4 (2.10)	14.2 (4.22)	82.4 (4.51)	5.5 (1.72)	12.4 (2.60)	82.1 (3.28)			
Colorado	5.8 (2.56)	28.4 (9.04)	65.8 (8.70)	12.1 (2.35)	27.9 (3.28)	60.0 (3.98)			
Connecticut	6.3 (1.75)	16.5 (3.61)	77.2 (4.17)	5.8 (1.42)	16.1 (2.72)	78.1 (2.88)			
Delaware	5.0 (1.16)	26.0 (1.71)	69.0 (2.02)	5.2 (1.37)	25.3 (2.73)	69.5 (2.97)			
District of Columbia	8.6 (0.52)	32.2 (0.92)	59.2 (0.96)	10.7 (1.44)	39.0 (2.10)	50.3 (1.93)			
Florida	8.0 (3.30)	34.1 (4.28)	57.9 (4.75)	4.2 (0.84)	24.1 (3.13)	71.7 (3.29)			
Georgia	6.1 (2.04)	24.4 (4.28)	69.5 (4.33)	8.0 (2.98)	25.5 (5.27)	66.6 (5.75)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	2.0 (1.13)	26.7 (3.79)	71.3 (3.98)			
Idaho	‡ (†)	‡ (†)	‡ (†)	5.7 (1.40)	25.2 (3.00)	69.1 (3.57)			
Illinois	2.1 (0.97)	19.3 (3.14)	78.6 (3.35)	3.5 (1.26)	19.5 (2.50)	76.9 (2.60)			
Indiana	4.1 (1.52)	24.5 (6.37)	71.4 (6.49)	3.4 (2.16)	17.7 (4.22)	78.9 (3.51)			
Iowa	6.5 (2.65)	37.6 (7.56)	55.8 (7.74)	4.8 (2.08)	23.9 (4.66)	71.3 (4.89)			
Kansas	10.9 (4.99)	22.0 (8.55)	67.1 (5.40)	10.4 (2.51)	20.8 (2.97)	68.8 (4.21)			
Kentucky	10.7 (2.40)	26.2 (4.27)	63.1 (5.39)	11.4 (3.50)	16.9 (4.11)	71.7 (5.28)			
Louisiana	5.4 (1.45)	25.3 (3.84)	69.3 (4.06)	8.0 (3.90)	15.4 (3.16)	76.6 (4.92)			
Maine	1.4 (1.48)	32.5 (5.74)	66.1 (5.44)	‡ (†)	‡ (†)	‡ (†)			
Maryland	6.0 (1.34)	21.4 (3.69)	72.6 (3.92)	5.1 (1.46)	20.6 (5.01)	74.3 (5.59)			
Massachusetts	6.2 (2.19)	19.6 (3.76)	74.2 (4.82)	4.2 (1.30)	25.2 (4.08)	70.5 (3.64)			
Michigan	1.5 (0.78)	27.1 (6.71)	71.3 (6.70)	3.7 (2.28)	20.0 (5.37)	76.3 (5.71)			
Minnesota	16.9 (6.43)	26.8 (5.44)	56.3 (6.59)	15.3 (4.55)	20.7 (3.78)	63.9 (5.26)			
Mississippi	13.0 (2.65)	25.1 (3.10)	61.9 (3.80)	8.0 (3.08)	30.2 (5.82)	61.8 (6.33)			
Missouri	7.3 (2.80)	37.8 (5.77)	54.9 (5.82)	10.2 (4.83)	26.0 (5.96)	63.8 (6.86)			
Montana	‡ (†)	‡ (†)	‡ (†)	5.6 (2.46)	22.4 (3.87)	72.0 (4.53)			
Nebraska	1.8 (1.07)	38.3 (6.72)	59.9 (6.79)	3.9 (1.29)	27.0 (3.01)	69.1 (3.25)			
Nevada	13.4 (2.60)	26.0 (3.50)	60.6 (3.74)	10.2 (2.57)	25.1 (2.67)	64.7 (3.09)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	0.9 (0.95)	11.9 (3.41)	87.2 (3.61)			
New Jersey	2.6 (1.37)	13.4 (3.27)	84.0 (3.56)	5.6 (1.92)	24.1 (3.54)	70.4 (3.33)			
New Mexico	‡ (†)	‡ (†)	‡ (†)	6.8 (1.59)	23.8 (2.22)	69.4 (2.32)			
New York	4.3 (1.96)	14.8 (2.94)	80.9 (3.68)	2.7 (0.97)	21.0 (3.71)	76.2 (3.85)			
North Carolina	4.6 (1.20)	29.1 (3.61)	66.3 (3.38)	8.4 (2.07)	26.6 (3.59)	65.0 (3.76)			
North Dakota	12.6 (3.39)	16.9 (3.83)	70.6 (4.75)	10.7 (2.91)	22.8 (4.24)	66.5 (4.55)			
Ohio	1.0 (0.67)	17.1 (4.88)	81.8 (4.90)	0.1 (0.06)	7.3 (3.32)	92.6 (3.32)			
Oklahoma	10.4 (2.81)	34.0 (4.91)	55.6 (5.25)	9.1 (3.71)	31.1 (4.18)	59.7 (6.62)			
Oregon	‡ (†)	‡ (†)	‡ (†)	7.2 (1.88)	18.1 (3.66)	74.7 (4.18)			
Pennsylvania	3.8 (2.14)	26.8 (3.99)	69.4 (4.55)	3.5 (1.93)	15.3 (5.62)	81.2 (5.95)			
Rhode Island	1.1 (0.82)	17.5 (3.92)	81.4 (4.04)	1.4 (0.63)	19.1 (2.99)	79.5 (3.07)			
South Carolina	8.0 (2.69)	25.0 (2.96)	67.0 (4.04)	6.1 (1.93)	26.1 (4.37)	67.8 (4.88)			
South Dakota	# (†)	31.1 (5.19)	68.9 (5.19)	7.5 (2.38)	19.8 (3.93)	72.6 (4.66)			
Tennessee	14.1 (4.11)	27.3 (4.59)	58.6 (5.88)	5.0 (2.18)	31.5 (6.60)	63.5 (6.55)			
Texas	6.2 (2.02)	20.6 (4.52)	73.2 (4.65)	5.3 (1.30)	20.7 (3.01)	74.0 (3.30)			
Utah	‡ (†)	‡ (†)	‡ (†)	7.5 (2.91)	24.0 (3.60)	68.6 (5.07)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	6.1 (2.02)	25.8 (4.70)	68.1 (4.44)	7.7 (2.51)	26.7 (3.73)	65.6 (3.81)			
Washington	# (†)	33.5 (5.81)	66.5 (5.81)	8.1 (4.26)	17.4 (3.01)	74.5 (4.27)			
West Virginia	2.1 (1.43)	25.5 (6.12)	72.4 (6.19)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	13.3 (6.95)	19.7 (5.17)	67.0 (7.24)	3.7 (3.24)	15.1 (3.00)	81.2 (4.65)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	4.9 (1.30)	21.8 (2.35)	73.3 (2.44)			
Department of Defense Dependents Schools	0.4 (0.39)	12.5 (2.36)	87.1 (2.40)	1.8 (0.71)	9.0 (1.17)	89.2 (1.27)			

See notes at end of table.

**TABLE B-15.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

(Standard errors in parentheses)												
State	Asian						Pacific Islander					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>5.2</b>	<b>(0.62)</b>	<b>15.8</b>	<b>(1.40)</b>	<b>79.0</b>	<b>(1.62)</b>	<b>3.9</b>	<b>(1.34)</b>	<b>23.3</b>	<b>(4.19)</b>	<b>72.8</b>	<b>(4.43)</b>
Alabama	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Alaska	3.4	(1.66)	20.5	(6.47)	76.1	(6.41)	#	(†)	23.6	(7.56)	76.4	(7.56)
Arizona	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Arkansas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
California	5.1	(1.67)	10.3	(3.65)	84.6	(4.11)	‡	(†)	‡	(†)	‡	(†)
Colorado	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Connecticut	2.3	(1.29)	13.0	(3.73)	84.7	(3.85)	‡	(†)	‡	(†)	‡	(†)
Delaware	4.2	(1.83)	14.9	(4.08)	80.8	(4.27)	‡	(†)	‡	(†)	‡	(†)
District of Columbia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Florida	12.7	(5.53)	10.9	(4.86)	76.4	(6.23)	‡	(†)	‡	(†)	‡	(†)
Georgia	5.5	(4.35)	17.6	(6.77)	76.9	(7.74)	‡	(†)	‡	(†)	‡	(†)
Hawaii	3.4	(1.13)	21.0	(2.02)	75.6	(2.35)	5.8	(1.33)	22.7	(1.79)	71.5	(2.09)
Idaho	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Illinois	#	(†)	18.0	(4.68)	82.0	(4.68)	‡	(†)	‡	(†)	‡	(†)
Indiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Iowa	3.0	(2.09)	23.9	(7.77)	73.1	(7.95)	‡	(†)	‡	(†)	‡	(†)
Kansas	1.4	(1.34)	25.5	(7.27)	73.1	(7.10)	‡	(†)	‡	(†)	‡	(†)
Kentucky	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Louisiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maine	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maryland	5.2	(2.48)	10.9	(3.71)	83.9	(4.52)	‡	(†)	‡	(†)	‡	(†)
Massachusetts	6.3	(3.16)	19.7	(3.29)	74.0	(4.66)	‡	(†)	‡	(†)	‡	(†)
Michigan	#	(†)	36.0	(13.63)	64.0	(13.63)	‡	(†)	‡	(†)	‡	(†)
Minnesota	3.7	(2.08)	14.7	(3.81)	81.7	(3.94)	‡	(†)	‡	(†)	‡	(†)
Mississippi	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Missouri	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Montana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nebraska	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nevada	6.8	(2.27)	17.1	(4.31)	76.1	(4.88)	‡	(†)	‡	(†)	‡	(†)
New Hampshire	1.0	(1.01)	9.5	(3.55)	89.5	(4.10)	‡	(†)	‡	(†)	‡	(†)
New Jersey	6.7	(3.12)	20.5	(3.59)	72.7	(4.64)	‡	(†)	‡	(†)	‡	(†)
New Mexico	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York	0.8	(0.50)	10.9	(2.30)	88.4	(2.34)	‡	(†)	‡	(†)	‡	(†)
North Carolina	2.2	(1.70)	30.2	(6.82)	67.7	(7.18)	‡	(†)	‡	(†)	‡	(†)
North Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Ohio	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oklahoma	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oregon	4.3	(2.29)	13.9	(5.13)	81.7	(5.66)	‡	(†)	‡	(†)	‡	(†)
Pennsylvania	1.3	(1.20)	7.4	(3.88)	91.3	(3.97)	‡	(†)	‡	(†)	‡	(†)
Rhode Island	#	(†)	23.2	(6.37)	76.8	(6.37)	‡	(†)	‡	(†)	‡	(†)
South Carolina	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Tennessee	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Texas	14.3	(2.92)	13.8	(5.91)	71.9	(7.05)	‡	(†)	‡	(†)	‡	(†)
Utah	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Vermont	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Virginia	6.1	(2.45)	24.8	(6.87)	69.0	(6.05)	‡	(†)	‡	(†)	‡	(†)
Washington	1.7	(1.46)	16.1	(3.61)	82.2	(3.79)	‡	(†)	‡	(†)	‡	(†)
West Virginia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wisconsin	4.6	(2.52)	5.6	(3.28)	89.7	(3.76)	‡	(†)	‡	(†)	‡	(†)
Wyoming	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Department of Defense Dependents Schools	2.8	(1.63)	18.2	(3.64)	79.0	(3.60)	‡	(†)	‡	(†)	‡	(†)

See notes at end of table.

**TABLE B-15.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	American Indian/Alaska Native			Two or more races					
	Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	<b>5.3 (0.94)</b>	<b>19.4 (1.92)</b>	<b>75.3 (1.96)</b>	<b>5.3 (0.68)</b>	<b>20.2 (1.03)</b>	<b>74.4 (1.13)</b>			
Alabama	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Alaska	4.3 (3.08)	25.6 (4.79)	70.1 (5.25)	1.6 (1.03)	17.3 (4.50)	81.0 (4.64)			
Arizona	9.0 (3.56)	35.7 (10.45)	55.3 (9.12)	‡ (†)	‡ (†)	‡ (†)			
Arkansas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
California	‡ (†)	‡ (†)	‡ (†)	8.7 (3.52)	7.2 (4.19)	84.1 (5.23)			
Colorado	‡ (†)	‡ (†)	‡ (†)	4.0 (2.89)	22.0 (6.41)	73.9 (6.64)			
Connecticut	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Delaware	‡ (†)	‡ (†)	‡ (†)	# (†)	19.8 (4.61)	80.2 (4.61)			
District of Columbia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Florida	‡ (†)	‡ (†)	‡ (†)	6.3 (3.83)	33.3 (6.03)	60.5 (6.08)			
Georgia	‡ (†)	‡ (†)	‡ (†)	9.3 (4.26)	19.1 (5.88)	71.6 (7.30)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	2.8 (1.60)	24.4 (4.25)	72.8 (4.21)			
Idaho	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Illinois	‡ (†)	‡ (†)	‡ (†)	4.7 (3.28)	15.0 (4.88)	80.4 (4.94)			
Indiana	‡ (†)	‡ (†)	‡ (†)	1.0 (0.95)	24.1 (4.89)	74.9 (4.94)			
Iowa	‡ (†)	‡ (†)	‡ (†)	8.7 (3.45)	33.2 (4.78)	58.1 (6.32)			
Kansas	‡ (†)	‡ (†)	‡ (†)	3.0 (1.59)	26.1 (6.13)	71.0 (6.13)			
Kentucky	‡ (†)	‡ (†)	‡ (†)	2.7 (1.72)	22.1 (6.98)	75.2 (6.84)			
Louisiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maryland	‡ (†)	‡ (†)	‡ (†)	5.9 (3.04)	20.3 (6.03)	73.8 (5.86)			
Massachusetts	‡ (†)	‡ (†)	‡ (†)	5.0 (4.23)	20.2 (5.20)	74.8 (6.74)			
Michigan	‡ (†)	‡ (†)	‡ (†)	# (†)	16.2 (5.95)	83.8 (5.95)			
Minnesota	4.4 (3.26)	22.8 (6.49)	72.8 (6.44)	8.2 (3.17)	17.8 (3.98)	74.0 (4.54)			
Mississippi	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Missouri	‡ (†)	‡ (†)	‡ (†)	12.1 (4.49)	23.7 (5.95)	64.1 (7.03)			
Montana	4.1 (1.46)	24.3 (3.73)	71.6 (3.86)	2.9 (2.02)	21.5 (4.14)	75.5 (4.69)			
Nebraska	‡ (†)	‡ (†)	‡ (†)	3.6 (2.00)	30.5 (6.31)	65.9 (6.42)			
Nevada	‡ (†)	‡ (†)	‡ (†)	2.4 (1.75)	16.6 (3.56)	81.0 (3.83)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Jersey	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Mexico	4.1 (2.51)	11.7 (2.69)	84.2 (4.36)	‡ (†)	‡ (†)	‡ (†)			
New York	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
North Carolina	4.8 (2.73)	21.3 (6.67)	73.9 (7.51)	5.8 (2.86)	25.0 (5.10)	69.2 (5.54)			
North Dakota	2.1 (1.03)	30.6 (3.08)	67.3 (3.19)	‡ (†)	‡ (†)	‡ (†)			
Ohio	‡ (†)	‡ (†)	‡ (†)	# (†)	22.9 (5.71)	77.0 (5.71)			
Oklahoma	3.2 (1.38)	9.7 (2.06)	87.0 (2.58)	7.7 (2.86)	30.0 (4.74)	62.2 (5.39)			
Oregon	3.4 (2.18)	26.2 (5.94)	70.4 (6.04)	3.9 (0.99)	15.0 (4.40)	81.1 (4.66)			
Pennsylvania	‡ (†)	‡ (†)	‡ (†)	1.9 (2.00)	18.5 (5.55)	79.5 (5.78)			
Rhode Island	‡ (†)	‡ (†)	‡ (†)	5.7 (2.58)	9.7 (2.87)	84.6 (3.42)			
South Carolina	‡ (†)	‡ (†)	‡ (†)	9.1 (3.35)	21.5 (6.30)	69.4 (6.87)			
South Dakota	7.3 (2.02)	27.3 (4.12)	65.3 (4.41)	4.6 (2.33)	14.4 (4.37)	81.0 (4.60)			
Tennessee	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Texas	‡ (†)	‡ (†)	‡ (†)	6.0 (3.69)	17.1 (5.65)	76.9 (5.92)			
Utah	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	‡ (†)	‡ (†)	‡ (†)	7.4 (3.18)	20.0 (3.80)	72.6 (5.10)			
Washington	2.5 (1.35)	13.7 (6.02)	83.7 (6.10)	1.0 (0.78)	18.4 (4.90)	80.5 (4.98)			
West Virginia	‡ (†)	‡ (†)	‡ (†)	1.4 (1.36)	33.2 (5.87)	65.4 (6.00)			
Wisconsin	9.2 (4.49)	18.5 (5.35)	72.3 (6.31)	‡ (†)	‡ (†)	‡ (†)			
Wyoming	1.2 (1.11)	22.2 (4.35)	76.6 (4.39)	‡ (†)	‡ (†)	‡ (†)			
Department of Defense Dependents Schools	‡ (†)	‡ (†)	‡ (†)	3.0 (1.02)	13.1 (2.24)	83.8 (2.23)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-16.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and jurisdiction: 2015

(Standard errors in parentheses)								
Jurisdiction	Years of experience of reading teacher			White				
	Less than 1	1-5	More than 5	Years of experience of reading teacher			More than 5	
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	<b>4.9 (0.26)</b>	<b>19.3 (0.46)</b>	<b>75.8 (0.54)</b>	<b>4.0 (0.25)</b>	<b>18.3 (0.50)</b>	<b>77.7 (0.58)</b>		
Large city	5.3 (0.45)	20.6 (1.16)	74.1 (1.31)	4.0 (0.51)	20.7 (1.40)	75.2 (1.52)		
Albuquerque	3.1 (1.09)	18.2 (1.97)	78.7 (2.06)	1.4 (1.06)	17.1 (3.17)	81.5 (3.03)		
Atlanta	3.6 (0.72)	16.4 (1.57)	80.1 (1.84)	# (†)	20.0 (3.62)	80.0 (3.62)		
Austin	4.9 (1.26)	33.4 (2.82)	61.7 (2.85)	0.9 (0.65)	22.3 (4.86)	76.9 (4.89)		
Baltimore City	12.9 (3.12)	25.3 (3.56)	61.8 (4.98)	11.0 (5.85)	9.2 (4.21)	79.8 (7.42)		
Boston	6.1 (1.52)	19.1 (2.05)	74.9 (2.60)	5.1 (1.91)	11.5 (3.48)	83.3 (4.23)		
Charlotte	5.4 (1.37)	31.9 (2.62)	62.7 (3.32)	6.2 (2.23)	27.6 (4.73)	66.2 (5.80)		
Chicago	2.4 (0.96)	25.0 (3.03)	72.6 (3.24)	# (†)	16.0 (4.63)	84.0 (4.63)		
Cleveland	3.6 (0.39)	3.1 (0.48)	93.3 (0.61)	1.5 (1.02)	0.8 (0.80)	97.7 (1.29)		
Dallas	14.7 (3.69)	15.0 (2.43)	70.3 (3.79)	‡ (†)	‡ (†)	‡ (†)		
Detroit	3.7 (1.31)	8.7 (2.52)	87.6 (2.79)	‡ (†)	‡ (†)	‡ (†)		
District of Columbia (DCPS)	6.5 (0.48)	29.4 (0.83)	64.1 (0.92)	5.6 (1.32)	33.2 (3.57)	61.2 (3.52)		
Fresno	5.8 (1.24)	10.4 (1.89)	83.8 (2.11)	5.3 (2.56)	14.1 (4.63)	80.6 (4.61)		
Hillsborough County (FL)	5.9 (2.06)	29.1 (4.90)	64.9 (4.60)	6.6 (3.44)	28.1 (5.10)	65.4 (5.32)		
Houston	4.7 (1.18)	26.3 (3.08)	69.0 (3.32)	10.7 (5.28)	29.1 (7.20)	60.2 (6.33)		
Jefferson County (KY)	10.4 (2.61)	22.8 (3.56)	66.8 (4.30)	8.4 (2.72)	21.9 (3.87)	69.7 (4.82)		
Los Angeles	2.0 (1.11)	4.3 (1.46)	93.8 (1.79)	6.8 (5.66)	9.6 (6.31)	83.6 (6.88)		
Miami-Dade	0.9 (0.58)	19.0 (3.76)	80.1 (3.78)	0.8 (0.83)	20.9 (7.47)	78.3 (7.57)		
New York City	4.2 (1.16)	22.3 (3.03)	73.5 (3.40)	4.4 (2.45)	29.6 (9.01)	65.9 (8.43)		
Philadelphia	0.5 (0.40)	10.3 (2.33)	89.2 (2.33)	# (†)	4.5 (1.72)	95.5 (1.72)		
San Diego	2.2 (0.95)	10.8 (2.87)	87.0 (3.02)	0.9 (0.80)	1.0 (1.02)	98.1 (1.41)		
Duval County (FL)	5.0 (1.50)	22.7 (3.57)	72.3 (3.93)	6.1 (2.25)	18.6 (3.95)	75.4 (4.62)		
Jurisdiction	Black			Hispanic				
	Less than 1	1-5	More than 5	Years of experience of reading teacher			More than 5	
				Less than 1	1-5	More than 5		
<b>Nation (public)</b>	<b>6.2 (0.51)</b>	<b>23.5 (0.94)</b>	<b>70.3 (1.03)</b>	<b>5.9 (0.61)</b>	<b>19.4 (0.91)</b>	<b>74.7 (1.15)</b>		
Large city	7.0 (0.91)	24.5 (1.47)	68.5 (1.48)	5.3 (0.57)	19.5 (1.77)	75.2 (1.89)		
Albuquerque	‡ (†)	‡ (†)	‡ (†)	3.7 (1.40)	18.3 (2.29)	78.0 (2.59)		
Atlanta	5.0 (1.01)	15.5 (1.76)	79.6 (2.15)	# (†)	9.9 (3.61)	90.1 (3.61)		
Austin	‡ (†)	‡ (†)	‡ (†)	5.3 (1.75)	39.1 (3.35)	55.6 (3.44)		
Baltimore City	12.5 (3.09)	28.9 (3.80)	58.5 (5.15)	16.1 (7.16)	13.2 (7.27)	70.7 (11.11)		
Boston	7.3 (2.44)	24.2 (3.15)	68.4 (4.06)	6.2 (1.79)	20.3 (2.91)	73.5 (3.38)		
Charlotte	5.6 (1.52)	34.5 (3.13)	60.0 (3.64)	4.5 (1.73)	36.0 (4.35)	59.4 (4.85)		
Chicago	1.8 (1.03)	33.8 (4.19)	64.4 (4.58)	4.1 (1.97)	20.0 (3.85)	75.9 (4.41)		
Cleveland	5.1 (0.67)	4.7 (0.75)	90.1 (1.00)	0.8 (0.78)	0.7 (0.64)	98.6 (0.99)		
Dallas	15.7 (5.74)	5.0 (1.80)	79.3 (5.43)	15.6 (3.89)	18.4 (3.24)	66.0 (4.37)		
Detroit	3.6 (1.52)	10.1 (3.07)	86.3 (3.41)	4.0 (1.89)	2.7 (1.22)	93.3 (2.12)		
District of Columbia (DCPS)	6.8 (0.59)	26.4 (1.01)	66.7 (1.09)	6.2 (1.44)	37.7 (2.07)	56.1 (2.31)		
Fresno	7.8 (3.71)	18.6 (5.66)	73.5 (7.86)	5.8 (1.29)	9.8 (1.83)	84.4 (1.99)		
Hillsborough County (FL)	3.3 (1.46)	33.1 (6.66)	63.6 (6.46)	6.5 (2.52)	28.8 (6.31)	64.7 (6.16)		
Houston	2.7 (0.93)	16.8 (3.76)	80.5 (3.83)	5.0 (1.53)	29.6 (3.80)	65.4 (4.25)		
Jefferson County (KY)	16.1 (3.97)	27.3 (4.22)	56.6 (5.10)	3.8 (1.67)	15.6 (4.65)	80.6 (4.53)		
Los Angeles	# (†)	# (†)	100.0 <sup>1</sup> (†)	1.4 (1.05)	3.4 (1.16)	95.3 (1.61)		
Miami-Dade	0.3 (0.33)	32.2 (9.20)	67.5 (9.20)	1.1 (0.71)	14.9 (3.46)	84.0 (3.50)		
New York City	5.9 (2.32)	20.2 (5.11)	73.9 (6.80)	4.5 (1.59)	23.6 (3.08)	71.9 (3.55)		
Philadelphia	0.8 (0.57)	11.4 (2.94)	87.8 (2.92)	0.5 (0.52)	11.5 (4.31)	88.0 (4.29)		
San Diego	3.5 (2.44)	18.2 (7.34)	78.3 (7.06)	3.0 (1.27)	16.0 (4.29)	81.0 (4.62)		
Duval County (FL)	4.4 (1.48)	29.6 (5.94)	66.1 (6.11)	5.3 (2.54)	11.9 (2.60)	82.8 (3.75)		

See notes at end of table.

**TABLE B-16.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and jurisdiction: 2015—Continued

(Standard errors in parentheses)												
Jurisdiction	Asian						Pacific Islander					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>5.2</b>	<b>(0.62)</b>	<b>15.8</b>	<b>(1.40)</b>	<b>79.0</b>	<b>(1.62)</b>	<b>3.9</b>	<b>(1.34)</b>	<b>23.3</b>	<b>(4.19)</b>	<b>72.8</b>	<b>(4.43)</b>
Large city	2.7	(0.91)	14.6	(3.13)	82.6	(3.41)	3.7	(1.55)	15.1	(2.94)	81.2	(3.70)
Albuquerque	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Atlanta	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Austin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Baltimore City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Boston	2.6	(1.89)	5.5	(2.57)	91.9	(3.24)	‡	(†)	‡	(†)	‡	(†)
Charlotte	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Chicago	#	(†)	24.4	(8.62)	75.6	(8.62)	‡	(†)	‡	(†)	‡	(†)
Cleveland	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Dallas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Detroit	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
District of Columbia (DCPS)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Fresno	7.4	(2.78)	7.9	(2.86)	84.7	(3.66)	‡	(†)	‡	(†)	‡	(†)
Hillsborough County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Houston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jefferson County (KY)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Los Angeles	1.1	(1.12)	10.4	(7.34)	88.5	(7.15)	‡	(†)	‡	(†)	‡	(†)
Miami-Dade	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York City	1.2	(0.76)	14.1	(3.12)	84.8	(3.22)	‡	(†)	‡	(†)	‡	(†)
Philadelphia	#	(†)	1.5	(1.53)	98.5	(1.53)	‡	(†)	‡	(†)	‡	(†)
San Diego	2.0	(1.49)	6.6	(2.49)	91.5	(2.85)	‡	(†)	‡	(†)	‡	(†)
Duval County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jurisdiction	American Indian/Alaska Native						Two or more races					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>5.3</b>	<b>(0.94)</b>	<b>19.4</b>	<b>(1.92)</b>	<b>75.3</b>	<b>(1.96)</b>	<b>5.3</b>	<b>(0.68)</b>	<b>20.2</b>	<b>(1.03)</b>	<b>74.4</b>	<b>(1.13)</b>
Large city	9.5	(3.76)	15.3	(4.03)	75.1	(4.84)	4.7	(1.64)	23.7	(2.41)	71.5	(2.88)
Albuquerque	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Atlanta	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Austin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Baltimore City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Boston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Charlotte	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Chicago	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Cleveland	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Dallas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Detroit	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
District of Columbia (DCPS)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Fresno	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Hillsborough County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Houston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jefferson County (KY)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Los Angeles	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Miami-Dade	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Philadelphia	‡	(†)	‡	(†)	‡	(†)	#	(†)	19.4	(5.52)	80.6	(5.52)
San Diego	‡	(†)	‡	(†)	‡	(†)	#	(†)	6.2	(3.24)	93.8	(3.24)
Duval County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-17.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, disability status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)								
	Years of experience of reading teacher			With a disability			Without a disability		
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	4.7 (0.36)	20.2 (0.68)	75.2 (0.72)	5.0 (0.28)	19.2 (0.49)	75.8 (0.59)
<b>Location</b>									
City	5.9 (0.38)	20.6 (0.95)	73.5 (0.99)	5.4 (0.71)	22.2 (1.26)	72.4 (1.37)	6.0 (0.41)	20.4 (1.01)	73.6 (1.05)
Suburban	4.5 (0.43)	17.8 (0.79)	77.8 (0.94)	3.6 (0.59)	19.0 (1.22)	77.4 (1.16)	4.6 (0.47)	17.6 (0.83)	77.8 (1.00)
Town	4.3 (0.49)	23.3 (1.42)	72.4 (1.53)	5.0 (0.88)	23.4 (1.73)	71.5 (1.94)	4.2 (0.48)	23.3 (1.47)	72.5 (1.57)
Rural	4.7 (0.66)	18.3 (0.99)	77.0 (1.25)	5.7 (0.83)	17.8 (1.08)	76.6 (1.24)	4.6 (0.69)	18.4 (1.07)	77.1 (1.37)
<b>Minority enrollment</b>									
75 percent or more	6.5 (0.66)	21.6 (1.06)	72.0 (1.26)	6.2 (0.97)	24.4 (1.74)	69.4 (1.86)	6.5 (0.72)	21.2 (1.10)	72.3 (1.33)
Less than 75 percent	4.3 (0.29)	18.4 (0.52)	77.3 (0.60)	4.1 (0.35)	18.6 (0.75)	77.2 (0.81)	4.3 (0.31)	18.4 (0.54)	77.3 (0.63)

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-18.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, disability status, and state: 2015

State	(Standard errors in parentheses)								
	Years of experience of reading teacher			With a disability			Without a disability		
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	4.7 (0.36)	20.2 (0.68)	75.2 (0.72)	5.0 (0.28)	19.2 (0.49)	75.8 (0.59)
Alabama	5.2 (1.22)	18.5 (2.59)	76.4 (2.70)	5.0 (1.68)	22.2 (4.08)	72.8 (4.12)	5.2 (1.28)	18.0 (2.52)	76.8 (2.68)
Alaska	3.0 (1.12)	18.4 (2.26)	78.6 (2.49)	2.5 (1.39)	19.4 (2.99)	78.2 (3.17)	3.1 (1.15)	18.2 (2.30)	78.7 (2.56)
Arizona	7.8 (1.67)	23.7 (2.40)	68.5 (2.76)	11.1 (2.52)	21.8 (3.71)	67.1 (4.38)	7.3 (1.66)	24.0 (2.43)	68.7 (2.76)
Arkansas	4.9 (1.32)	20.0 (2.26)	75.1 (2.43)	5.2 (1.74)	19.2 (3.14)	75.6 (3.74)	4.9 (1.36)	20.1 (2.39)	75.0 (2.46)
California	4.9 (1.10)	11.5 (2.06)	83.6 (2.45)	3.3 (1.84)	14.2 (3.50)	82.5 (3.67)	5.1 (1.22)	11.3 (2.06)	83.7 (2.52)
Colorado	8.4 (1.67)	24.1 (2.44)	67.5 (2.74)	8.3 (2.86)	16.8 (2.81)	74.9 (3.52)	8.4 (1.65)	24.9 (2.53)	66.7 (2.86)
Connecticut	4.4 (0.84)	15.1 (1.79)	80.5 (1.95)	2.9 (1.00)	18.9 (3.47)	78.2 (3.66)	4.7 (0.89)	14.6 (1.75)	80.8 (1.91)
Delaware	4.5 (0.67)	21.4 (1.31)	74.1 (1.46)	3.7 (1.33)	25.8 (2.74)	70.5 (3.13)	4.7 (0.70)	20.6 (1.29)	74.7 (1.41)
District of Columbia	8.7 (0.41)	33.8 (0.75)	57.4 (0.79)	9.2 (1.78)	33.0 (2.59)	57.8 (2.70)	8.7 (0.47)	34.0 (0.84)	57.3 (0.83)
Florida	4.7 (1.11)	26.2 (2.59)	69.0 (2.72)	3.7 (1.23)	28.2 (3.35)	68.2 (3.39)	4.9 (1.29)	25.8 (2.80)	69.2 (2.96)
Georgia	6.0 (1.67)	21.4 (3.14)	72.6 (3.52)	6.3 (2.10)	16.2 (3.06)	77.4 (4.03)	6.0 (1.72)	22.0 (3.27)	72.0 (3.61)
Hawaii	3.6 (0.78)	22.5 (1.52)	74.0 (1.81)	6.8 (2.43)	26.2 (4.51)	66.9 (4.79)	3.2 (0.81)	22.1 (1.60)	74.6 (1.96)
Idaho	4.8 (0.81)	19.3 (1.98)	75.9 (2.21)	5.6 (1.45)	15.7 (2.89)	78.7 (3.05)	4.7 (0.81)	19.7 (2.07)	75.6 (2.32)
Illinois	2.4 (0.64)	18.7 (2.16)	78.9 (2.24)	1.2 (0.44)	16.9 (2.54)	81.9 (2.65)	2.6 (0.72)	19.0 (2.26)	78.5 (2.34)
Indiana	3.6 (0.90)	19.7 (1.92)	76.7 (2.07)	4.2 (1.66)	21.4 (3.33)	74.4 (3.50)	3.5 (0.85)	19.4 (1.91)	77.1 (2.09)
Iowa	4.2 (1.05)	21.0 (2.36)	74.7 (2.48)	5.0 (1.97)	22.8 (3.68)	72.3 (4.01)	4.1 (1.06)	20.8 (2.40)	75.1 (2.53)

See notes at end of table.

**TABLE B-18.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, disability status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			With a disability			Without a disability					
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
Kansas	6.3 (1.34)	21.6 (2.22)	72.0 (2.62)	7.1 (1.81)	18.4 (3.58)	74.5 (4.00)	6.2 (1.37)	22.0 (2.30)	71.7 (2.69)			
Kentucky	6.1 (1.52)	18.8 (2.95)	75.2 (3.30)	6.3 (1.79)	21.1 (4.20)	72.6 (4.49)	6.0 (1.61)	18.4 (2.95)	75.6 (3.29)			
Louisiana	4.0 (1.12)	20.7 (2.57)	75.3 (2.79)	5.9 (1.75)	23.3 (3.73)	70.8 (4.14)	3.6 (1.07)	20.0 (2.57)	76.4 (2.75)			
Maine	4.1 (0.66)	15.1 (1.37)	80.8 (1.49)	2.9 (1.06)	15.6 (2.28)	81.5 (2.30)	4.4 (0.72)	15.0 (1.41)	80.6 (1.53)			
Maryland	5.1 (1.09)	19.9 (2.89)	75.0 (2.87)	3.9 (0.97)	22.0 (3.42)	74.2 (3.28)	5.3 (1.17)	19.6 (3.00)	75.1 (3.01)			
Massachusetts	3.9 (0.92)	18.2 (1.98)	77.9 (2.10)	3.8 (1.18)	17.1 (2.44)	79.1 (2.49)	3.9 (0.98)	18.4 (2.09)	77.7 (2.21)			
Michigan	2.1 (0.78)	17.2 (2.57)	80.7 (2.66)	1.6 (0.86)	11.6 (3.06)	86.9 (2.97)	2.1 (0.84)	18.0 (2.65)	79.9 (2.74)			
Minnesota	8.4 (1.86)	17.9 (2.31)	73.7 (2.68)	6.9 (1.97)	18.8 (3.11)	74.3 (3.62)	8.7 (1.91)	17.7 (2.34)	73.6 (2.70)			
Mississippi	11.7 (1.87)	27.3 (2.33)	61.0 (2.51)	13.0 (2.68)	28.0 (3.72)	59.1 (3.60)	11.6 (1.88)	27.2 (2.33)	61.3 (2.56)			
Missouri	8.8 (1.86)	24.9 (2.33)	66.3 (2.77)	11.4 (3.45)	21.3 (2.70)	67.2 (3.78)	8.4 (1.76)	25.4 (2.47)	66.1 (2.79)			
Montana	4.1 (0.66)	18.5 (1.24)	77.5 (1.36)	3.1 (1.15)	25.7 (2.64)	71.2 (3.06)	4.2 (0.71)	17.6 (1.25)	78.2 (1.38)			
Nebraska	4.2 (1.04)	27.1 (1.73)	68.7 (1.93)	5.0 (1.63)	28.4 (3.13)	66.6 (3.46)	4.0 (1.05)	26.9 (1.79)	69.1 (1.98)			
Nevada	7.9 (1.65)	21.7 (1.94)	70.4 (2.25)	7.2 (2.48)	20.6 (3.91)	72.2 (3.92)	8.0 (1.65)	21.9 (2.01)	70.1 (2.39)			
New Hampshire	2.4 (0.57)	12.1 (1.27)	85.6 (1.37)	2.7 (1.09)	12.8 (2.13)	84.5 (2.42)	2.3 (0.62)	11.9 (1.30)	85.7 (1.40)			
New Jersey	4.6 (1.25)	17.6 (1.95)	77.8 (2.27)	3.6 (1.45)	18.9 (2.93)	77.5 (2.91)	4.8 (1.38)	17.3 (2.08)	77.9 (2.42)			
New Mexico	6.4 (1.31)	21.9 (1.76)	71.8 (1.88)	4.4 (1.47)	22.3 (3.19)	73.4 (3.31)	6.7 (1.39)	21.9 (1.74)	71.4 (1.85)			
New York	2.3 (0.74)	13.8 (1.86)	83.9 (1.90)	3.0 (1.01)	16.6 (2.57)	80.4 (2.60)	2.1 (0.74)	13.2 (1.92)	84.6 (1.99)			
North Carolina	5.7 (1.21)	26.1 (2.53)	68.2 (2.44)	6.7 (1.66)	15.9 (2.45)	77.4 (3.20)	5.6 (1.27)	27.6 (2.71)	66.8 (2.55)			
North Dakota	5.9 (0.44)	22.6 (0.75)	71.5 (0.68)	5.0 (1.14)	20.2 (2.35)	74.8 (2.59)	6.1 (0.49)	22.9 (0.80)	71.0 (0.75)			
Ohio	1.4 (0.67)	17.0 (2.55)	81.5 (2.57)	0.1 (0.03)	21.3 (3.82)	78.7 (3.82)	1.6 (0.78)	16.3 (2.56)	82.0 (2.59)			
Oklahoma	5.7 (1.43)	24.8 (2.64)	69.5 (3.13)	5.2 (1.59)	23.8 (3.47)	71.0 (3.78)	5.8 (1.49)	25.0 (2.89)	69.2 (3.37)			
Oregon	6.0 (1.23)	18.5 (2.31)	75.5 (2.78)	3.9 (1.20)	15.6 (3.01)	80.5 (3.32)	6.3 (1.29)	19.0 (2.34)	74.7 (2.84)			
Pennsylvania	1.6 (0.74)	18.3 (2.37)	80.1 (2.22)	3.5 (2.14)	18.8 (2.96)	77.7 (3.41)	1.2 (0.64)	18.1 (2.52)	80.6 (2.38)			
Rhode Island	2.3 (0.59)	12.1 (1.30)	85.6 (1.44)	1.3 (0.91)	19.1 (3.02)	79.6 (3.16)	2.5 (0.63)	11.1 (1.24)	86.5 (1.39)			
South Carolina	6.5 (1.55)	22.9 (2.62)	70.6 (3.24)	6.3 (2.00)	25.9 (3.25)	67.9 (3.68)	6.5 (1.63)	22.5 (2.81)	71.0 (3.45)			
South Dakota	6.5 (0.79)	19.1 (1.32)	74.4 (1.35)	5.7 (1.63)	19.5 (2.34)	74.8 (2.62)	6.6 (0.80)	19.1 (1.46)	74.3 (1.52)			
Tennessee	7.8 (1.86)	24.2 (2.58)	68.0 (2.92)	6.2 (1.92)	23.6 (3.23)	70.3 (3.48)	8.1 (1.97)	24.3 (2.72)	67.6 (3.08)			
Texas	6.2 (1.43)	19.4 (2.28)	74.4 (2.62)	6.6 (2.84)	24.8 (4.03)	68.6 (4.59)	6.2 (1.38)	18.7 (2.34)	75.1 (2.68)			
Utah	5.7 (1.28)	26.5 (2.55)	67.9 (2.83)	7.6 (2.43)	23.5 (3.55)	68.9 (4.20)	5.4 (1.20)	26.8 (2.57)	67.7 (2.84)			
Vermont	5.3 (0.33)	17.6 (0.66)	77.1 (0.69)	7.7 (1.26)	14.3 (1.78)	78.0 (2.34)	4.9 (0.34)	18.2 (0.69)	76.9 (0.72)			
Virginia	5.6 (1.26)	24.8 (2.62)	69.6 (2.75)	5.6 (1.97)	28.0 (4.03)	66.5 (4.36)	5.6 (1.29)	24.4 (2.70)	70.1 (2.86)			
Washington	2.9 (1.14)	19.4 (2.74)	77.7 (2.77)	3.1 (1.49)	18.3 (3.22)	78.5 (3.22)	2.8 (1.15)	19.6 (2.80)	77.6 (2.85)			
West Virginia	3.4 (0.81)	21.8 (2.13)	74.8 (2.37)	3.8 (1.35)	23.9 (3.11)	72.3 (3.18)	3.4 (0.76)	21.3 (2.15)	75.4 (2.39)			
Wisconsin	4.6 (1.24)	17.7 (2.12)	77.8 (2.38)	3.6 (1.46)	17.5 (3.21)	78.9 (3.19)	4.7 (1.30)	17.7 (2.17)	77.6 (2.49)			
Wyoming	5.8 (0.40)	20.3 (0.78)	73.9 (0.89)	3.0 (1.02)	22.6 (2.47)	74.5 (2.42)	6.3 (0.45)	19.9 (0.81)	73.8 (0.93)			
Department of Defense Dependents Schools	1.5 (0.15)	10.6 (0.45)	87.9 (0.47)	1.2 (0.66)	7.3 (1.84)	91.5 (1.85)	1.5 (0.20)	11.2 (0.49)	87.3 (0.51)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

TABLE B-19. Percentage of 4th-grade public school students, by years of experience of their reading teacher, disability status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)									
	Years of experience of reading teacher			With a disability			Without a disability			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	4.7 (0.36)	20.2 (0.68)	75.2 (0.72)	5.0 (0.28)	19.2 (0.49)	75.8 (0.59)	
Large city	5.3 (0.45)	20.6 (1.16)	74.1 (1.31)	6.2 (1.16)	21.7 (1.41)	72.1 (1.81)	5.1 (0.46)	20.5 (1.25)	74.4 (1.39)	
Albuquerque	3.1 (1.09)	18.2 (1.97)	78.7 (2.06)	3.8 (2.04)	15.5 (4.24)	80.7 (4.50)	3.0 (1.07)	18.7 (2.01)	78.3 (2.00)	
Atlanta	3.6 (0.72)	16.4 (1.57)	80.1 (1.84)	4.7 (2.45)	16.3 (3.30)	78.9 (4.10)	3.4 (0.69)	16.4 (1.64)	80.2 (1.88)	
Austin	4.9 (1.26)	33.4 (2.82)	61.7 (2.85)	2.9 (1.74)	29.4 (4.57)	67.7 (4.41)	5.2 (1.29)	34.0 (2.96)	60.7 (2.99)	
Baltimore City	12.9 (3.12)	25.3 (3.56)	61.8 (4.98)	15.1 (4.50)	26.0 (6.67)	59.0 (7.71)	12.6 (3.08)	25.3 (3.64)	62.0 (4.99)	
Boston	6.1 (1.52)	19.1 (2.05)	74.9 (2.60)	3.5 (1.51)	19.8 (2.97)	76.7 (3.32)	6.7 (1.71)	18.9 (2.18)	74.4 (2.82)	
Charlotte	5.4 (1.37)	31.9 (2.62)	62.7 (3.32)	10.8 (3.92)	24.1 (4.46)	65.0 (5.27)	4.9 (1.32)	32.6 (2.88)	62.5 (3.44)	
Chicago	2.4 (0.96)	25.0 (3.03)	72.6 (3.24)	4.4 (2.43)	23.1 (3.53)	72.5 (4.16)	2.1 (0.90)	25.3 (3.33)	72.6 (3.46)	
Cleveland	3.6 (0.39)	3.1 (0.48)	93.3 (0.61)	3.6 (1.50)	5.2 (2.45)	91.2 (2.70)	3.6 (0.39)	2.6 (0.33)	93.8 (0.51)	
Dallas	14.7 (3.69)	15.0 (2.43)	70.3 (3.79)	‡ (†)	‡ (†)	‡ (†)	15.2 (3.79)	14.8 (2.43)	70.0 (3.94)	
Detroit	3.7 (1.31)	8.7 (2.52)	87.6 (2.79)	2.6 (1.76)	4.2 (2.33)	93.2 (2.95)	3.8 (1.39)	9.1 (2.66)	87.0 (2.95)	
District of Columbia (DCPS)	6.5 (0.48)	29.4 (0.83)	64.1 (0.92)	2.6 (1.07)	33.3 (3.11)	64.1 (3.23)	7.1 (0.52)	28.9 (0.96)	64.1 (0.97)	
Fresno	5.8 (1.24)	10.4 (1.89)	83.8 (2.11)	3.7 (2.00)	9.7 (3.58)	86.7 (4.21)	6.0 (1.32)	10.5 (2.04)	83.5 (2.24)	
Hillsborough County (FL)	5.9 (2.06)	29.1 (4.90)	64.9 (4.60)	5.3 (2.86)	32.4 (6.43)	62.3 (6.53)	6.1 (2.17)	28.4 (4.96)	65.6 (4.59)	
Houston	4.7 (1.18)	26.3 (3.08)	69.0 (3.32)	4.4 (2.09)	35.1 (5.54)	60.6 (5.83)	4.7 (1.21)	25.6 (3.03)	69.7 (3.28)	
Jefferson County (KY)	10.4 (2.61)	22.8 (3.56)	66.8 (4.30)	10.4 (3.49)	26.0 (5.45)	63.6 (6.32)	10.4 (2.67)	22.4 (3.56)	67.1 (4.37)	
Los Angeles	2.0 (1.11)	4.3 (1.46)	93.8 (1.79)	2.8 (2.70)	10.2 (4.18)	87.0 (4.97)	1.9 (1.05)	3.6 (1.53)	94.5 (1.78)	
Miami-Dade	0.9 (0.58)	19.0 (3.76)	80.1 (3.78)	1.3 (1.27)	18.6 (4.61)	80.1 (4.64)	0.8 (0.57)	19.1 (3.90)	80.1 (3.93)	
New York City	4.2 (1.16)	22.3 (3.03)	73.5 (3.40)	5.5 (1.91)	28.9 (4.43)	65.6 (4.65)	3.9 (1.18)	20.3 (3.29)	75.8 (3.68)	
Philadelphia	0.5 (0.40)	10.3 (2.33)	89.2 (2.33)	4.4 (3.33)	16.2 (4.49)	79.4 (5.22)	# (†)	9.5 (2.48)	90.5 (2.48)	
San Diego	2.2 (0.95)	10.8 (2.87)	87.0 (3.02)	1.0 (1.01)	15.9 (6.90)	83.1 (6.92)	2.4 (1.00)	10.2 (2.53)	87.4 (2.71)	
Duval County (FL)	5.0 (1.50)	22.7 (3.57)	72.3 (3.93)	3.9 (2.37)	23.9 (4.93)	72.3 (5.19)	5.2 (1.57)	22.5 (3.68)	72.3 (3.99)	

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-20.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, English language learner status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)										
	Years of experience of reading teacher			English language learner Years of experience of reading teacher			Not English language learner Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.8 (0.61)	19.6 (1.09)	74.6 (1.36)	4.8 (0.25)	19.3 (0.47)	75.9 (0.53)		
<b>Location</b>											
City	5.9 (0.38)	20.6 (0.95)	73.5 (0.99)	5.8 (0.65)	20.1 (1.49)	74.1 (1.65)	5.9 (0.41)	20.7 (0.98)	73.3 (1.04)		
Suburban	4.5 (0.43)	17.8 (0.79)	77.8 (0.94)	6.3 (1.23)	18.7 (1.89)	75.0 (2.30)	4.3 (0.39)	17.6 (0.78)	78.1 (0.90)		
Town	4.3 (0.49)	23.3 (1.42)	72.4 (1.53)	4.4 (1.77)	25.5 (5.64)	70.1 (6.14)	4.3 (0.46)	23.1 (1.30)	72.6 (1.41)		
Rural	4.7 (0.66)	18.3 (0.99)	77.0 (1.25)	5.1 (1.74)	14.4 (3.10)	80.5 (3.93)	4.7 (0.63)	18.5 (0.98)	76.8 (1.21)		
<b>Minority enrollment</b>											
75 percent or more	6.5 (0.66)	21.6 (1.06)	72.0 (1.26)	6.3 (0.89)	19.7 (1.61)	74.0 (1.93)	6.5 (0.67)	22.2 (1.06)	71.3 (1.24)		
Less than 75 percent	4.3 (0.29)	18.4 (0.52)	77.3 (0.60)	4.9 (0.57)	19.4 (1.23)	75.7 (1.25)	4.3 (0.29)	18.3 (0.53)	77.4 (0.61)		

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-21.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, English language learner status, and state: 2015

State	(Standard errors in parentheses)										
	Years of experience of reading teacher			English language learner Years of experience of reading teacher			Not English language learner Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.8 (0.61)	19.6 (1.09)	74.6 (1.36)	4.8 (0.25)	19.3 (0.47)	75.9 (0.53)		
Alabama	5.2 (1.22)	18.5 (2.59)	76.4 (2.70)	‡ (†)	‡ (†)	‡ (†)	5.1 (1.21)	18.5 (2.63)	76.4 (2.74)		
Alaska	3.0 (1.12)	18.4 (2.26)	78.6 (2.49)	1.1 (0.66)	24.2 (5.43)	74.7 (5.56)	3.3 (1.28)	17.4 (2.21)	79.3 (2.53)		
Arizona	7.8 (1.67)	23.7 (2.40)	68.5 (2.76)	13.2 (5.02)	28.2 (6.06)	58.6 (6.39)	7.2 (1.53)	23.3 (2.50)	69.5 (2.92)		
Arkansas	4.9 (1.32)	20.0 (2.26)	75.1 (2.43)	3.8 (1.88)	23.6 (5.81)	72.6 (5.61)	5.0 (1.36)	19.6 (2.25)	75.3 (2.50)		
California	4.9 (1.10)	11.5 (2.06)	83.6 (2.45)	5.2 (1.47)	13.8 (3.25)	81.0 (3.70)	4.8 (1.10)	10.7 (1.91)	84.5 (2.30)		
Colorado	8.4 (1.67)	24.1 (2.44)	67.5 (2.74)	16.3 (4.04)	29.0 (3.85)	54.7 (4.45)	7.1 (1.63)	23.3 (2.47)	69.6 (2.69)		
Connecticut	4.4 (0.84)	15.1 (1.79)	80.5 (1.95)	3.4 (1.51)	16.3 (3.92)	80.3 (4.06)	4.5 (0.87)	15.0 (1.85)	80.5 (2.01)		
Delaware	4.5 (0.67)	21.4 (1.31)	74.1 (1.46)	1.9 (1.42)	27.0 (5.27)	71.2 (5.34)	4.6 (0.70)	21.2 (1.33)	74.2 (1.48)		
District of Columbia	8.7 (0.41)	33.8 (0.75)	57.4 (0.79)	8.1 (2.38)	42.5 (3.99)	49.4 (3.87)	8.8 (0.44)	33.3 (0.80)	57.9 (0.84)		
Florida	4.7 (1.11)	26.2 (2.59)	69.0 (2.72)	2.5 (1.17)	28.3 (4.53)	69.2 (4.83)	5.0 (1.20)	26.0 (2.55)	69.0 (2.68)		
Georgia	6.0 (1.67)	21.4 (3.14)	72.6 (3.52)	4.9 (3.00)	27.0 (6.59)	68.1 (7.32)	6.1 (1.68)	21.1 (3.22)	72.8 (3.60)		
Hawaii	3.6 (0.78)	22.5 (1.52)	74.0 (1.81)	5.3 (2.63)	29.0 (4.78)	65.6 (4.62)	3.4 (0.78)	22.0 (1.58)	74.6 (1.91)		
Idaho	4.8 (0.81)	19.3 (1.98)	75.9 (2.21)	7.9 (2.59)	25.1 (5.86)	67.0 (6.67)	4.6 (0.83)	19.1 (1.99)	76.3 (2.20)		
Illinois	2.4 (0.64)	18.7 (2.16)	78.9 (2.24)	4.5 (1.66)	19.4 (4.15)	76.1 (4.39)	2.2 (0.60)	18.6 (2.25)	79.2 (2.33)		
Indiana	3.6 (0.90)	19.7 (1.92)	76.7 (2.07)	4.4 (3.18)	21.4 (5.46)	74.2 (5.09)	3.6 (0.85)	19.6 (1.98)	76.8 (2.19)		
Iowa	4.2 (1.05)	21.0 (2.36)	74.7 (2.48)	2.6 (1.34)	32.4 (7.52)	65.0 (7.60)	4.3 (1.08)	20.2 (2.24)	75.5 (2.40)		
Kansas	6.3 (1.34)	21.6 (2.22)	72.0 (2.62)	10.4 (2.68)	23.6 (3.86)	65.9 (5.39)	5.7 (1.25)	21.2 (2.28)	73.1 (2.58)		

See notes at end of table.

TABLE B-21. Percentage of 4th-grade public school students, by years of experience of their reading teacher, English language learner status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			English language learner			Not English language learner					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
Kentucky	6.1 (1.52)	18.8 (2.95)	75.2 (3.30)	7.6 (3.84)	20.0 (6.50)	72.5 (6.71)	6.0 (1.57)	18.7 (2.97)	75.3 (3.31)			
Louisiana	4.0 (1.12)	20.7 (2.57)	75.3 (2.79)	† (†)	† (†)	† (†)	4.0 (1.08)	20.5 (2.63)	75.5 (2.80)			
Maine	4.1 (0.66)	15.1 (1.37)	80.8 (1.49)	† (†)	† (†)	† (†)	4.1 (0.66)	14.6 (1.46)	81.3 (1.59)			
Maryland	5.1 (1.09)	19.9 (2.89)	75.0 (2.87)	4.5 (1.94)	16.6 (5.23)	79.0 (5.97)	5.2 (1.13)	20.1 (2.95)	74.7 (2.88)			
Massachusetts	3.9 (0.92)	18.2 (1.98)	77.9 (2.10)	6.7 (2.90)	23.2 (4.65)	70.2 (3.49)	3.6 (0.89)	17.7 (2.03)	78.6 (2.20)			
Michigan	2.1 (0.78)	17.2 (2.57)	80.7 (2.66)	2.3 (1.92)	30.7 (11.70)	67.0 (11.76)	2.0 (0.79)	16.5 (2.49)	81.4 (2.59)			
Minnesota	8.4 (1.86)	17.9 (2.31)	73.7 (2.68)	14.5 (3.44)	25.0 (4.87)	60.5 (5.18)	7.8 (1.89)	17.1 (2.43)	75.1 (2.74)			
Mississippi	11.7 (1.87)	27.3 (2.33)	61.0 (2.51)	† (†)	† (†)	† (†)	11.9 (1.90)	27.4 (2.34)	60.7 (2.54)			
Missouri	8.8 (1.86)	24.9 (2.33)	66.3 (2.77)	12.8 (5.15)	18.5 (5.92)	68.7 (7.57)	8.7 (1.83)	25.1 (2.32)	66.2 (2.75)			
Montana	4.1 (0.66)	18.5 (1.24)	77.5 (1.36)	† (†)	† (†)	† (†)	4.1 (0.65)	18.1 (1.18)	77.8 (1.31)			
Nebraska	4.2 (1.04)	27.1 (1.73)	68.7 (1.93)	2.7 (1.44)	26.3 (5.20)	71.0 (5.32)	4.3 (1.08)	27.2 (1.80)	68.5 (2.03)			
Nevada	7.9 (1.65)	21.7 (1.94)	70.4 (2.25)	9.3 (2.68)	25.9 (3.18)	64.8 (3.97)	7.4 (1.52)	20.5 (1.96)	72.1 (2.10)			
New Hampshire	2.4 (0.57)	12.1 (1.27)	85.6 (1.37)	1.4 (1.42)	4.5 (2.45)	94.1 (2.74)	2.4 (0.58)	12.4 (1.29)	85.2 (1.39)			
New Jersey	4.6 (1.25)	17.6 (1.95)	77.8 (2.27)	† (†)	† (†)	† (†)	4.5 (1.27)	17.3 (1.97)	78.2 (2.33)			
New Mexico	6.4 (1.31)	21.9 (1.76)	71.8 (1.88)	8.1 (3.31)	20.3 (3.63)	71.6 (4.25)	6.0 (1.31)	22.2 (1.71)	71.7 (1.84)			
New York	2.3 (0.74)	13.8 (1.86)	83.9 (1.90)	4.4 (2.24)	19.0 (3.61)	76.5 (3.59)	2.1 (0.76)	13.5 (1.97)	84.4 (2.02)			
North Carolina	5.7 (1.21)	26.1 (2.53)	68.2 (2.44)	9.7 (2.80)	28.5 (5.70)	61.8 (5.98)	5.5 (1.16)	25.9 (2.53)	68.6 (2.45)			
North Dakota	5.9 (0.44)	22.6 (0.75)	71.5 (0.68)	† (†)	† (†)	† (†)	5.7 (0.44)	22.7 (0.77)	71.6 (0.70)			
Ohio	1.4 (0.67)	17.0 (2.55)	81.5 (2.57)	1.5 (1.42)	7.3 (3.18)	91.2 (3.51)	1.4 (0.66)	17.4 (2.59)	81.2 (2.60)			
Oklahoma	5.7 (1.43)	24.8 (2.64)	69.5 (3.13)	9.4 (4.33)	34.1 (5.51)	56.5 (8.43)	5.4 (1.37)	24.1 (2.62)	70.5 (2.94)			
Oregon	6.0 (1.23)	18.5 (2.31)	75.5 (2.78)	8.0 (2.96)	14.7 (3.62)	77.3 (4.30)	5.7 (1.16)	19.1 (2.35)	75.2 (2.80)			
Pennsylvania	1.6 (0.74)	18.3 (2.37)	80.1 (2.22)	2.8 (2.17)	12.7 (4.57)	84.6 (5.47)	1.6 (0.73)	18.5 (2.38)	80.0 (2.23)			
Rhode Island	2.3 (0.59)	12.1 (1.30)	85.6 (1.44)	0.8 (0.85)	26.0 (5.15)	73.1 (5.35)	2.4 (0.62)	11.2 (1.27)	86.4 (1.40)			
South Carolina	6.5 (1.55)	22.9 (2.62)	70.6 (3.24)	3.9 (1.73)	27.4 (4.69)	68.7 (4.90)	6.7 (1.62)	22.6 (2.67)	70.7 (3.31)			
South Dakota	6.5 (0.79)	19.1 (1.32)	74.4 (1.35)	1.5 (1.47)	26.2 (5.41)	72.4 (5.60)	6.6 (0.81)	18.9 (1.37)	74.5 (1.39)			
Tennessee	7.8 (1.86)	24.2 (2.58)	68.0 (2.92)	7.7 (3.94)	28.8 (5.14)	63.5 (5.23)	7.8 (1.87)	24.0 (2.57)	68.2 (2.95)			
Texas	6.2 (1.43)	19.4 (2.28)	74.4 (2.62)	4.8 (1.29)	19.7 (3.22)	75.5 (3.65)	6.6 (1.63)	19.3 (2.40)	74.1 (2.82)			
Utah	5.7 (1.28)	26.5 (2.55)	67.9 (2.83)	9.2 (4.05)	20.8 (4.05)	70.0 (5.86)	5.5 (1.23)	26.7 (2.63)	67.8 (2.89)			
Vermont	5.3 (0.33)	17.6 (0.66)	77.1 (0.69)	† (†)	† (†)	† (†)	5.3 (0.35)	17.7 (0.67)	77.0 (0.71)			
Virginia	5.6 (1.26)	24.8 (2.62)	69.6 (2.75)	1.7 (1.19)	36.1 (4.18)	62.2 (4.10)	5.8 (1.32)	24.1 (2.68)	70.1 (2.86)			
Washington	2.9 (1.14)	19.4 (2.74)	77.7 (2.77)	8.6 (4.72)	16.1 (3.17)	75.2 (4.93)	2.0 (0.79)	19.9 (2.90)	78.1 (2.87)			
West Virginia	3.4 (0.81)	21.8 (2.13)	74.8 (2.37)	† (†)	† (†)	† (†)	3.5 (0.82)	21.7 (2.15)	74.9 (2.39)			
Wisconsin	4.6 (1.24)	17.7 (2.12)	77.8 (2.38)	7.0 (5.23)	12.5 (2.92)	80.5 (5.89)	4.4 (1.19)	18.0 (2.23)	77.5 (2.42)			
Wyoming	5.8 (0.40)	20.3 (0.78)	73.9 (0.89)	† (†)	† (†)	† (†)	5.9 (0.42)	19.9 (0.81)	74.2 (0.94)			
Department of Defense Dependents Schools	1.5 (0.15)	10.6 (0.45)	87.9 (0.47)	2.0 (0.69)	10.7 (2.22)	87.3 (2.13)	1.5 (0.15)	10.7 (0.52)	87.9 (0.52)			

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-22.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, English language learner status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)									
	Years of experience of reading teacher			English language learner Years of experience of reading teacher			Not English language learner Years of experience of reading teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.8 (0.61)	19.6 (1.09)	74.6 (1.36)	4.8 (0.25)	19.3 (0.47)	75.9 (0.53)	
Large city	5.3 (0.45)	20.6 (1.16)	74.1 (1.31)	6.2 (0.79)	20.2 (1.65)	73.5 (1.87)	5.0 (0.47)	20.7 (1.17)	74.2 (1.33)	
Albuquerque	3.1 (1.09)	18.2 (1.97)	78.7 (2.06)	4.0 (1.87)	16.0 (3.31)	80.0 (4.45)	2.9 (1.07)	18.8 (2.22)	78.3 (2.12)	
Atlanta	3.6 (0.72)	16.4 (1.57)	80.1 (1.84)	‡ (†)	‡ (†)	‡ (†)	3.6 (0.74)	16.8 (1.62)	79.6 (1.89)	
Austin	4.9 (1.26)	33.4 (2.82)	61.7 (2.85)	4.8 (2.05)	42.0 (4.60)	53.1 (3.84)	4.9 (1.23)	28.3 (3.41)	66.8 (3.57)	
Baltimore City	12.9 (3.12)	25.3 (3.56)	61.8 (4.98)	‡ (†)	‡ (†)	‡ (†)	12.7 (3.09)	26.1 (3.67)	61.2 (4.96)	
Boston	6.1 (1.52)	19.1 (2.05)	74.9 (2.60)	3.8 (0.96)	19.8 (3.33)	76.5 (3.45)	7.2 (2.11)	18.7 (2.09)	74.1 (2.91)	
Charlotte	5.4 (1.37)	31.9 (2.62)	62.7 (3.32)	8.7 (3.56)	37.2 (5.92)	54.1 (6.29)	5.1 (1.35)	31.3 (2.65)	63.6 (3.43)	
Chicago	2.4 (0.96)	25.0 (3.03)	72.6 (3.24)	3.3 (2.12)	25.6 (5.03)	71.1 (5.30)	2.3 (0.95)	24.9 (3.18)	72.8 (3.38)	
Cleveland	3.6 (0.39)	3.1 (0.48)	93.3 (0.61)	3.2 (2.23)	# (†)	96.8 (2.23)	3.6 (0.43)	3.4 (0.52)	93.0 (0.67)	
Dallas	14.7 (3.69)	15.0 (2.43)	70.3 (3.79)	13.6 (4.03)	21.0 (4.04)	65.4 (5.14)	15.7 (4.52)	9.4 (3.09)	74.8 (3.92)	
Detroit	3.7 (1.31)	8.7 (2.52)	87.6 (2.79)	3.5 (1.70)	2.9 (1.32)	93.7 (2.06)	3.8 (1.51)	9.9 (3.00)	86.4 (3.29)	
District of Columbia (DCPS)	6.5 (0.48)	29.4 (0.83)	64.1 (0.92)	6.7 (2.96)	42.4 (4.86)	50.9 (5.07)	6.5 (0.51)	28.5 (0.86)	65.0 (0.97)	
Fresno	5.8 (1.24)	10.4 (1.89)	83.8 (2.11)	8.3 (2.35)	8.7 (2.03)	83.0 (2.45)	4.9 (1.08)	11.0 (2.26)	84.1 (2.49)	
Hillsborough County (FL)	5.9 (2.06)	29.1 (4.90)	64.9 (4.60)	8.6 (4.58)	21.8 (7.06)	69.7 (7.90)	5.6 (2.05)	30.0 (4.92)	64.4 (4.54)	
Houston	4.7 (1.18)	26.3 (3.08)	69.0 (3.32)	6.4 (2.07)	28.5 (3.95)	65.0 (4.39)	3.6 (1.07)	25.0 (3.55)	71.5 (3.70)	
Jefferson County (KY)	10.4 (2.61)	22.8 (3.56)	66.8 (4.30)	7.0 (3.29)	10.4 (3.79)	82.6 (4.77)	10.7 (2.73)	23.7 (3.72)	65.6 (4.46)	
Los Angeles	2.0 (1.11)	4.3 (1.46)	93.8 (1.79)	1.3 (1.23)	6.4 (2.30)	92.4 (2.66)	2.3 (1.27)	3.4 (1.69)	94.3 (2.00)	
Miami-Dade	0.9 (0.58)	19.0 (3.76)	80.1 (3.78)	# (†)	13.0 (3.98)	87.0 (3.98)	1.1 (0.70)	20.3 (4.07)	78.6 (4.09)	
New York City	4.2 (1.16)	22.3 (3.03)	73.5 (3.40)	7.4 (3.52)	20.5 (3.68)	72.1 (4.30)	3.8 (1.15)	22.5 (3.27)	73.7 (3.62)	
Philadelphia	0.5 (0.40)	10.3 (2.33)	89.2 (2.33)	# (†)	15.9 (7.94)	84.1 (7.94)	0.6 (0.43)	9.8 (2.29)	89.6 (2.28)	
San Diego	2.2 (0.95)	10.8 (2.87)	87.0 (3.02)	3.4 (1.69)	15.5 (4.10)	81.1 (4.52)	1.6 (0.73)	8.1 (2.57)	90.4 (2.54)	
Duval County (FL)	5.0 (1.50)	22.7 (3.57)	72.3 (3.93)	‡ (†)	‡ (†)	‡ (†)	4.8 (1.44)	22.8 (3.57)	72.4 (3.92)	

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-23.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.7 (0.33)	20.9 (0.54)	73.4 (0.66)	4.1 (0.29)	17.3 (0.57)	78.6 (0.66)			
<b>Location</b>												
City	5.9 (0.38)	20.6 (0.95)	73.5 (0.99)	6.2 (0.46)	21.7 (1.00)	72.1 (1.05)	5.3 (0.51)	18.3 (1.16)	76.3 (1.30)			
Suburban	4.5 (0.43)	17.8 (0.79)	77.8 (0.94)	5.6 (0.70)	19.6 (1.10)	74.8 (1.42)	3.5 (0.41)	16.1 (0.89)	80.4 (0.96)			
Town	4.3 (0.49)	23.3 (1.42)	72.4 (1.53)	4.8 (0.67)	24.8 (1.83)	70.4 (1.93)	3.4 (0.40)	20.9 (1.28)	75.6 (1.38)			
Rural	4.7 (0.66)	18.3 (0.99)	77.0 (1.25)	5.0 (0.65)	19.3 (1.12)	75.6 (1.30)	4.5 (0.84)	17.2 (1.05)	78.3 (1.42)			
<b>Minority enrollment</b>												
75 percent or more	6.5 (0.66)	21.6 (1.06)	72.0 (1.26)	6.6 (0.69)	21.8 (1.06)	71.7 (1.25)	5.9 (1.05)	20.1 (1.89)	74.0 (2.21)			
Less than 75 percent	4.3 (0.29)	18.4 (0.52)	77.3 (0.60)	4.9 (0.36)	20.2 (0.64)	74.8 (0.70)	3.9 (0.33)	17.0 (0.60)	79.2 (0.71)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-24.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.7 (0.33)	20.9 (0.54)	73.4 (0.66)	4.1 (0.29)	17.3 (0.57)	78.6 (0.66)			
Alabama	5.2 (1.22)	18.5 (2.59)	76.4 (2.70)	6.4 (1.59)	15.3 (2.46)	78.4 (2.93)	3.2 (1.05)	23.8 (3.74)	73.0 (3.50)			
Alaska	3.0 (1.12)	18.4 (2.26)	78.6 (2.49)	2.4 (1.05)	21.3 (3.09)	76.3 (3.18)	3.5 (1.45)	15.7 (2.75)	80.8 (3.08)			
Arizona	7.8 (1.67)	23.7 (2.40)	68.5 (2.76)	8.8 (2.25)	25.7 (2.78)	65.4 (3.13)	5.6 (1.57)	18.7 (3.46)	75.7 (3.76)			
Arkansas	4.9 (1.32)	20.0 (2.26)	75.1 (2.43)	5.7 (1.47)	20.7 (2.43)	73.6 (2.43)	3.4 (1.23)	18.2 (2.99)	78.4 (3.37)			
California	4.9 (1.10)	11.5 (2.06)	83.6 (2.45)	5.1 (1.47)	12.4 (2.32)	82.5 (2.96)	4.8 (1.18)	10.4 (2.52)	84.8 (2.72)			
Colorado	8.4 (1.67)	24.1 (2.44)	67.5 (2.74)	11.3 (2.10)	27.7 (3.22)	61.0 (3.59)	6.0 (1.98)	21.0 (2.48)	73.0 (2.85)			
Connecticut	4.4 (0.84)	15.1 (1.79)	80.5 (1.95)	6.4 (1.28)	17.3 (2.33)	76.3 (2.53)	3.3 (0.90)	13.9 (1.94)	82.8 (2.13)			
Delaware	4.5 (0.67)	21.4 (1.31)	74.1 (1.46)	6.0 (1.19)	25.6 (1.70)	68.4 (1.99)	3.6 (0.57)	18.9 (1.54)	77.5 (1.64)			
District of Columbia	8.7 (0.41)	33.8 (0.75)	57.4 (0.79)	9.4 (0.54)	30.6 (0.96)	60.1 (0.99)	7.1 (0.88)	42.9 (1.72)	50.0 (1.71)			
Florida	4.7 (1.11)	26.2 (2.59)	69.0 (2.72)	5.7 (1.40)	29.3 (3.15)	65.0 (3.37)	3.2 (0.97)	21.7 (2.46)	75.1 (2.49)			
Georgia	6.0 (1.67)	21.4 (3.14)	72.6 (3.52)	7.0 (2.23)	23.8 (4.03)	69.3 (4.36)	3.9 (1.73)	16.3 (4.06)	79.8 (4.81)			
Hawaii	3.6 (0.78)	22.5 (1.52)	74.0 (1.81)	3.5 (0.77)	23.1 (1.59)	73.4 (1.71)	3.6 (1.16)	21.8 (1.95)	74.6 (2.50)			
Idaho	4.8 (0.81)	19.3 (1.98)	75.9 (2.21)	5.1 (0.98)	21.8 (2.28)	73.1 (2.81)	4.5 (1.15)	16.6 (2.24)	78.9 (2.37)			
Illinois	2.4 (0.64)	18.7 (2.16)	78.9 (2.24)	3.0 (0.82)	22.0 (2.53)	75.0 (2.56)	1.7 (0.72)	14.6 (2.39)	83.8 (2.55)			
Indiana	3.6 (0.90)	19.7 (1.92)	76.7 (2.07)	4.3 (1.10)	19.3 (2.43)	76.4 (2.45)	3.0 (0.93)	20.1 (2.05)	76.8 (2.30)			
Iowa	4.2 (1.05)	21.0 (2.36)	74.7 (2.48)	4.8 (1.29)	24.8 (3.28)	70.4 (3.56)	3.8 (1.16)	18.2 (2.45)	78.0 (2.60)			

See notes at end of table.

**TABLE B-24.** Percentage of 4th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and state: 2015—Continued

State	(Standard errors in parentheses)										
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher				
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5		
Kansas	6.3 (1.34)	21.6 (2.22)	72.0 (2.62)	7.9 (1.74)	23.2 (2.80)	68.9 (3.26)	4.3 (1.23)	19.4 (2.51)	76.2 (2.84)		
Kentucky	6.1 (1.52)	18.8 (2.95)	75.2 (3.30)	5.6 (1.33)	22.3 (3.43)	72.1 (3.63)	6.8 (2.22)	13.3 (2.45)	80.0 (3.33)		
Louisiana	4.0 (1.12)	20.7 (2.57)	75.3 (2.79)	4.2 (1.16)	22.6 (3.07)	73.3 (3.24)	3.8 (1.42)	16.4 (2.99)	79.8 (3.37)		
Maine	4.1 (0.66)	15.1 (1.37)	80.8 (1.49)	3.8 (0.77)	16.3 (1.68)	79.8 (1.84)	4.4 (0.83)	13.9 (1.64)	81.8 (1.71)		
Maryland	5.1 (1.09)	19.9 (2.89)	75.0 (2.87)	6.4 (1.39)	21.5 (3.39)	72.1 (3.64)	4.1 (1.26)	18.5 (3.30)	77.4 (3.22)		
Massachusetts	3.9 (0.92)	18.2 (1.98)	77.9 (2.10)	5.0 (1.40)	19.8 (2.77)	75.2 (2.71)	3.1 (0.91)	17.1 (2.33)	79.9 (2.50)		
Michigan	2.1 (0.78)	17.2 (2.57)	80.7 (2.66)	2.2 (0.91)	21.7 (3.82)	76.1 (3.98)	1.9 (1.00)	13.2 (2.36)	84.9 (2.49)		
Minnesota	8.4 (1.86)	17.9 (2.31)	73.7 (2.68)	10.1 (2.37)	21.6 (2.88)	68.3 (3.25)	7.3 (1.78)	15.3 (2.28)	77.4 (2.65)		
Mississippi	11.7 (1.87)	27.3 (2.33)	61.0 (2.51)	12.7 (2.13)	24.9 (2.63)	62.4 (3.10)	9.2 (2.53)	33.9 (2.99)	57.0 (2.49)		
Missouri	8.8 (1.86)	24.9 (2.33)	66.3 (2.77)	11.0 (2.65)	27.5 (2.87)	61.5 (3.51)	6.4 (1.58)	21.9 (2.55)	71.7 (2.74)		
Montana	4.1 (0.66)	18.5 (1.24)	77.5 (1.36)	4.0 (0.75)	20.5 (1.65)	75.5 (1.73)	4.2 (0.85)	16.7 (1.52)	79.1 (1.75)		
Nebraska	4.2 (1.04)	27.1 (1.73)	68.7 (1.93)	5.6 (1.49)	26.5 (2.15)	67.9 (2.49)	3.0 (0.82)	27.7 (2.11)	69.3 (2.23)		
Nevada	7.9 (1.65)	21.7 (1.94)	70.4 (2.25)	10.0 (2.52)	24.7 (2.47)	65.3 (2.96)	5.1 (1.37)	17.7 (2.29)	77.2 (2.61)		
New Hampshire	2.4 (0.57)	12.1 (1.27)	85.6 (1.37)	2.7 (1.05)	10.6 (1.79)	86.7 (1.99)	2.0 (0.46)	13.0 (1.46)	85.0 (1.55)		
New Jersey	4.6 (1.25)	17.6 (1.95)	77.8 (2.27)	4.7 (1.91)	19.9 (2.95)	75.4 (3.36)	4.9 (1.46)	15.8 (2.19)	79.3 (2.78)		
New Mexico	6.4 (1.31)	21.9 (1.76)	71.8 (1.88)	5.8 (1.37)	23.0 (1.96)	71.2 (2.08)	7.7 (2.28)	16.8 (2.74)	75.5 (3.21)		
New York	2.3 (0.74)	13.8 (1.86)	83.9 (1.90)	2.7 (0.76)	16.8 (2.12)	80.5 (2.20)	1.8 (1.06)	10.9 (2.84)	87.3 (2.92)		
North Carolina	5.7 (1.21)	26.1 (2.53)	68.2 (2.44)	6.5 (1.48)	25.6 (2.79)	67.9 (2.60)	4.5 (1.41)	26.7 (3.51)	68.7 (3.73)		
North Dakota	5.9 (0.44)	22.6 (0.75)	71.5 (0.68)	6.8 (0.77)	25.5 (1.31)	67.7 (1.47)	5.5 (0.53)	21.2 (0.94)	73.3 (0.87)		
Ohio	1.4 (0.67)	17.0 (2.55)	81.5 (2.57)	1.3 (0.59)	17.3 (3.37)	81.4 (3.33)	1.6 (0.85)	16.0 (2.71)	82.4 (2.74)		
Oklahoma	5.7 (1.43)	24.8 (2.64)	69.5 (3.13)	6.2 (1.56)	26.4 (2.83)	67.4 (3.41)	4.8 (1.66)	22.3 (2.97)	72.9 (3.36)		
Oregon	6.0 (1.23)	18.5 (2.31)	75.5 (2.78)	5.2 (1.26)	19.5 (2.51)	75.2 (2.95)	7.3 (1.81)	16.7 (3.03)	76.0 (3.68)		
Pennsylvania	1.6 (0.74)	18.3 (2.37)	80.1 (2.22)	2.6 (1.22)	20.1 (2.89)	77.3 (3.04)	0.9 (0.45)	16.1 (2.41)	83.0 (2.38)		
Rhode Island	2.3 (0.59)	12.1 (1.30)	85.6 (1.44)	2.5 (0.79)	16.5 (1.84)	81.0 (2.05)	2.1 (0.63)	8.5 (1.26)	89.3 (1.37)		
South Carolina	6.5 (1.55)	22.9 (2.62)	70.6 (3.24)	8.1 (2.21)	24.5 (2.55)	67.4 (3.44)	4.0 (1.11)	20.4 (3.78)	75.6 (4.13)		
South Dakota	6.5 (0.79)	19.1 (1.32)	74.4 (1.35)	6.5 (1.09)	20.9 (1.80)	72.5 (1.94)	6.5 (0.94)	17.4 (1.48)	76.1 (1.50)		
Tennessee	7.8 (1.86)	24.2 (2.58)	68.0 (2.92)	9.2 (2.33)	26.2 (2.91)	64.6 (3.40)	5.8 (1.72)	21.2 (2.77)	72.9 (2.94)		
Texas	6.2 (1.43)	19.4 (2.28)	74.4 (2.62)	6.0 (1.46)	20.3 (2.55)	73.7 (2.73)	6.7 (1.97)	17.8 (2.78)	75.5 (3.38)		
Utah	5.7 (1.28)	26.5 (2.55)	67.9 (2.83)	6.8 (1.78)	26.3 (3.20)	66.9 (3.76)	5.1 (1.41)	26.6 (2.62)	68.3 (2.89)		
Vermont	5.3 (0.33)	17.6 (0.66)	77.1 (0.69)	7.0 (0.74)	17.7 (1.24)	75.4 (1.34)	4.2 (0.55)	17.5 (0.81)	78.3 (0.84)		
Virginia	5.6 (1.26)	24.8 (2.62)	69.6 (2.75)	6.8 (1.82)	27.7 (3.64)	65.5 (3.61)	4.7 (1.45)	22.9 (2.75)	72.4 (2.97)		
Washington	2.9 (1.14)	19.4 (2.74)	77.7 (2.77)	4.1 (2.04)	20.7 (3.08)	75.1 (3.28)	1.7 (0.88)	18.2 (3.00)	80.1 (2.96)		
West Virginia	3.4 (0.81)	21.8 (2.13)	74.8 (2.37)	4.0 (0.95)	22.2 (2.35)	73.8 (2.60)	1.9 (1.04)	20.8 (3.04)	77.3 (3.23)		
Wisconsin	4.6 (1.24)	17.7 (2.12)	77.8 (2.38)	5.6 (1.98)	18.4 (2.43)	76.0 (2.87)	3.3 (1.07)	17.3 (2.47)	79.5 (2.61)		
Wyoming	5.8 (0.40)	20.3 (0.78)	73.9 (0.89)	3.9 (0.65)	21.9 (1.40)	74.2 (1.64)	7.0 (0.57)	19.3 (0.98)	73.7 (1.13)		
Department of Defense Dependents Schools	1.5 (0.15)	10.6 (0.45)	87.9 (0.47)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)		

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

TABLE B-25. Percentage of 4th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)										
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.9 (0.26)	19.3 (0.46)	75.8 (0.54)	5.7 (0.33)	20.9 (0.54)	73.4 (0.66)	4.1 (0.29)	17.3 (0.57)	78.6 (0.66)		
Large city	5.3 (0.45)	20.6 (1.16)	74.1 (1.31)	5.8 (0.50)	20.9 (1.09)	73.4 (1.20)	4.0 (0.81)	19.7 (1.63)	76.3 (2.02)		
Albuquerque	3.1 (1.09)	18.2 (1.97)	78.7 (2.06)	2.8 (1.10)	20.7 (2.26)	76.5 (2.50)	3.6 (1.65)	13.3 (2.55)	83.1 (2.47)		
Atlanta	3.6 (0.72)	16.4 (1.57)	80.1 (1.84)	4.7 (0.95)	14.6 (1.51)	80.7 (1.87)	# (†)	21.4 (3.06)	78.6 (3.06)		
Austin	4.9 (1.26)	33.4 (2.82)	61.7 (2.85)	7.1 (1.94)	39.4 (3.42)	53.5 (3.55)	1.3 (0.75)	23.3 (4.34)	75.4 (4.33)		
Baltimore City	12.9 (3.12)	25.3 (3.56)	61.8 (4.98)	14.1 (3.31)	26.1 (3.65)	59.8 (5.20)	7.2 (2.66)	21.1 (5.04)	71.8 (5.60)		
Boston	6.1 (1.52)	19.1 (2.05)	74.9 (2.60)	6.1 (1.52)	19.1 (2.05)	74.9 (2.60)	‡ (†)	‡ (†)	‡ (†)		
Charlotte	5.4 (1.37)	31.9 (2.62)	62.7 (3.32)	6.0 (1.40)	33.8 (2.84)	60.2 (3.35)	4.0 (1.87)	27.4 (4.29)	68.6 (5.45)		
Chicago	2.4 (0.96)	25.0 (3.03)	72.6 (3.24)	2.8 (1.13)	26.6 (3.16)	70.6 (3.43)	0.4 (0.38)	16.6 (5.85)	83.0 (5.87)		
Cleveland	3.6 (0.39)	3.1 (0.48)	93.3 (0.61)	3.6 (0.39)	3.1 (0.48)	93.3 (0.61)	‡ (†)	‡ (†)	‡ (†)		
Dallas	14.7 (3.69)	15.0 (2.43)	70.3 (3.79)	16.0 (3.89)	15.5 (2.51)	68.5 (3.91)	3.7 (2.13)	11.5 (6.38)	84.8 (6.79)		
Detroit	3.7 (1.31)	8.7 (2.52)	87.6 (2.79)	4.3 (1.50)	7.5 (2.21)	88.2 (2.56)	1.8 (1.15)	12.8 (4.78)	85.4 (4.81)		
District of Columbia (DCPS)	6.5 (0.48)	29.4 (0.83)	64.1 (0.92)	6.8 (0.56)	27.1 (0.98)	66.1 (1.04)	6.0 (0.95)	34.6 (2.21)	59.4 (2.17)		
Fresno	5.8 (1.24)	10.4 (1.89)	83.8 (2.11)	6.3 (1.33)	10.4 (1.98)	83.3 (2.27)	# (†)	10.6 (6.72)	89.4 (6.72)		
Hillsborough County (FL)	5.9 (2.06)	29.1 (4.90)	64.9 (4.60)	6.1 (2.11)	28.3 (5.69)	65.6 (5.71)	5.7 (3.12)	30.2 (5.93)	64.1 (5.79)		
Houston	4.7 (1.18)	26.3 (3.08)	69.0 (3.32)	4.1 (1.09)	26.8 (3.26)	69.2 (3.50)	6.7 (2.68)	25.1 (5.31)	68.2 (5.21)		
Jefferson County (KY)	10.4 (2.61)	22.8 (3.56)	66.8 (4.30)	11.0 (2.84)	27.9 (4.07)	61.1 (4.72)	8.9 (3.32)	10.9 (3.28)	80.1 (4.64)		
Los Angeles	2.0 (1.11)	4.3 (1.46)	93.8 (1.79)	1.2 (0.91)	3.8 (1.35)	95.0 (1.67)	6.7 (5.32)	7.0 (6.38)	86.4 (7.23)		
Miami-Dade	0.9 (0.58)	19.0 (3.76)	80.1 (3.78)	0.7 (0.65)	18.4 (3.75)	80.9 (3.83)	1.3 (1.22)	20.8 (7.22)	77.9 (7.12)		
New York City	4.2 (1.16)	22.3 (3.03)	73.5 (3.40)	4.0 (1.12)	21.2 (2.67)	74.9 (3.09)	5.8 (2.53)	27.4 (8.79)	66.7 (8.60)		
Philadelphia	0.5 (0.40)	10.3 (2.33)	89.2 (2.33)	0.8 (0.59)	10.9 (2.69)	88.3 (2.69)	# (†)	9.3 (2.68)	90.7 (2.68)		
San Diego	2.2 (0.95)	10.8 (2.87)	87.0 (3.02)	3.2 (1.32)	15.1 (4.14)	81.7 (4.31)	0.3 (0.34)	1.5 (1.07)	98.3 (1.15)		
Duval County (FL)	5.0 (1.50)	22.7 (3.57)	72.3 (3.93)	4.1 (1.18)	27.4 (4.48)	68.5 (4.42)	5.9 (2.21)	18.3 (3.41)	75.8 (4.17)		

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-26.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and selected school characteristics: 2015

(Standard errors in parentheses)								
School characteristic	Years of experience of mathematics teacher			White				
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	3.8 (0.32)	18.3 (0.55)	77.9 (0.57)		
Location								
City	7.7 (1.21)	20.2 (1.06)	72.1 (1.35)	5.2 (0.64)	19.0 (1.22)	75.8 (1.34)		
Suburban	4.0 (0.61)	19.1 (0.94)	76.9 (1.08)	3.4 (0.45)	17.9 (0.97)	78.7 (1.06)		
Town	3.7 (0.52)	19.8 (1.91)	76.5 (1.83)	3.7 (0.69)	18.5 (1.20)	77.8 (1.26)		
Rural	3.8 (0.54)	20.4 (1.15)	75.7 (1.21)	3.7 (0.59)	18.4 (1.04)	77.9 (1.09)		
Minority enrollment								
75 percent or more	8.6 (1.47)	22.4 (1.51)	69.0 (1.88)	7.4 (1.96)	24.9 (2.24)	67.7 (2.70)		
Less than 75 percent	3.7 (0.24)	18.8 (0.63)	77.5 (0.67)	3.7 (0.31)	18.0 (0.57)	78.3 (0.59)		
School characteristic	Black			Hispanic				
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	6.1 (0.63)	24.2 (0.96)	69.7 (1.03)	7.1 (1.31)	20.9 (1.29)	72.0 (1.58)		
Location								
City	7.9 (1.23)	25.4 (1.54)	66.6 (1.57)	10.4 (2.68)	19.3 (1.87)	70.3 (2.81)		
Suburban	4.4 (0.58)	22.6 (1.56)	73.0 (1.65)	5.1 (2.18)	20.4 (1.91)	74.5 (2.56)		
Town	5.3 (1.52)	26.1 (5.85)	68.6 (5.88)	3.4 (1.00)	21.0 (6.32)	75.6 (6.42)		
Rural	4.9 (1.26)	23.3 (3.05)	71.8 (3.03)	4.3 (1.30)	30.8 (4.55)	64.9 (4.68)		
Minority enrollment								
75 percent or more	7.8 (1.11)	26.0 (1.83)	66.3 (1.95)	9.9 (2.35)	20.7 (2.11)	69.4 (2.82)		
Less than 75 percent	4.2 (0.45)	22.3 (1.18)	73.5 (1.31)	3.6 (0.36)	21.2 (1.38)	75.2 (1.45)		
School characteristic	Asian			Pacific Islander				
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	3.6 (0.68)	16.5 (1.52)	79.8 (1.71)	10.3 (4.97)	17.1 (2.19)	72.7 (4.56)		
Location								
City	4.1 (1.18)	14.3 (1.69)	81.6 (2.27)	19.9 (14.47)	19.9 (5.38)	60.2 (11.43)		
Suburban	3.5 (0.88)	17.9 (2.19)	78.6 (2.47)	7.5 (2.36)	16.8 (3.13)	75.6 (4.34)		
Town	1.6 (1.07)	16.7 (3.73)	81.7 (3.84)	0.8 (0.58)	12.9 (3.80)	86.3 (3.95)		
Rural	3.2 (1.38)	19.3 (3.93)	77.5 (4.15)	3.2 (1.24)	14.8 (6.00)	82.0 (6.36)		
Minority enrollment								
75 percent or more	3.8 (1.51)	15.9 (3.30)	80.3 (3.58)	15.6 (10.29)	20.6 (3.55)	63.9 (8.51)		
Less than 75 percent	3.5 (0.72)	16.9 (1.56)	79.6 (1.88)	5.4 (2.03)	13.8 (2.84)	80.9 (3.27)		
School characteristic	American Indian/Alaska Native			Two or more races				
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	3.9 (0.70)	20.0 (2.06)	76.1 (2.29)	4.4 (0.58)	19.2 (1.29)	76.3 (1.41)		
Location								
City	9.1 (2.68)	16.4 (4.19)	74.5 (5.83)	6.2 (1.63)	17.9 (2.19)	75.9 (2.54)		
Suburban	5.0 (2.10)	15.2 (3.31)	79.8 (3.32)	4.0 (0.76)	18.1 (1.79)	77.9 (1.83)		
Town	1.8 (0.69)	24.6 (5.89)	73.7 (5.92)	3.3 (1.07)	20.2 (3.65)	76.4 (3.70)		
Rural	2.0 (0.65)	20.9 (3.45)	77.1 (3.50)	3.3 (1.17)	23.7 (3.53)	73.1 (3.66)		
Minority enrollment								
75 percent or more	4.0 (3.12)	26.6 (4.47)	69.5 (4.74)	10.6 (3.12)	26.1 (4.47)	63.2 (4.74)		
Less than 75 percent	3.8 (0.48)	17.4 (1.20)	78.8 (1.25)	3.6 (0.48)	18.3 (1.20)	78.2 (1.25)		

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-27.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015

(Standard errors in parentheses)												
State	Years of experience of mathematics teacher						White					
	Less than 1			1-5			Less than 1			1-5	More than 5	
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>5.0</b>	<b>(0.42)</b>	<b>19.7</b>	<b>(0.58)</b>	<b>75.3</b>	<b>(0.59)</b>	<b>3.8</b>	<b>(0.32)</b>	<b>18.3</b>	<b>(0.55)</b>	<b>77.9</b>	<b>(0.57)</b>
Alabama	1.0	(0.48)	25.5	(3.65)	73.5	(3.64)	1.2	(0.69)	25.3	(3.80)	73.5	(3.75)
Alaska	0.6	(0.20)	10.6	(1.20)	88.8	(1.20)	0.7	(0.30)	6.3	(0.84)	93.0	(0.88)
Arizona	7.3	(1.69)	21.2	(3.22)	71.6	(3.35)	7.1	(2.08)	20.2	(2.93)	72.8	(2.98)
Arkansas	6.7	(1.44)	23.8	(2.96)	69.5	(3.24)	5.0	(1.38)	22.6	(3.44)	72.4	(3.63)
California	5.7	(1.70)	17.6	(2.75)	76.7	(3.28)	1.6	(0.74)	18.3	(4.42)	80.1	(4.75)
Colorado	9.8	(2.43)	23.8	(3.72)	66.4	(3.80)	6.7	(1.62)	22.2	(3.58)	71.2	(3.61)
Connecticut	6.1	(1.56)	23.5	(2.63)	70.4	(2.59)	5.1	(1.38)	21.1	(2.80)	73.8	(2.96)
Delaware	3.3	(0.29)	14.9	(0.62)	81.8	(0.69)	3.0	(0.45)	12.8	(1.04)	84.2	(1.05)
District of Columbia	7.2	(0.43)	42.6	(0.90)	50.2	(0.86)	8.3	(2.54)	69.9	(3.76)	21.8	(3.55)
Florida	3.1	(0.85)	24.1	(2.88)	72.8	(2.97)	1.6	(0.48)	22.4	(3.61)	76.0	(3.64)
Georgia	6.0	(1.57)	16.3	(2.31)	77.7	(2.70)	6.6	(2.23)	16.8	(3.13)	76.7	(3.61)
Hawaii	6.5	(0.72)	24.3	(1.20)	69.2	(1.09)	9.7	(2.61)	29.2	(4.31)	61.1	(2.94)
Idaho	6.4	(1.62)	25.0	(2.17)	68.6	(2.59)	6.3	(1.56)	26.1	(2.24)	67.6	(2.50)
Illinois	5.3	(1.98)	19.1	(2.86)	75.6	(3.32)	7.0	(3.23)	16.8	(3.19)	76.1	(4.12)
Indiana	2.1	(0.81)	18.4	(2.92)	79.5	(3.16)	1.5	(0.63)	16.1	(3.01)	82.4	(3.28)
Iowa	2.7	(0.86)	24.1	(2.77)	73.2	(2.66)	2.4	(0.94)	24.4	(2.86)	73.2	(2.79)
Kansas	3.9	(1.13)	19.5	(2.63)	76.6	(2.79)	3.7	(1.43)	17.8	(2.94)	78.4	(3.31)
Kentucky	7.0	(1.15)	22.1	(2.67)	70.9	(2.77)	6.2	(1.17)	21.4	(2.73)	72.4	(2.84)
Louisiana	6.6	(1.96)	20.1	(3.41)	73.3	(3.91)	2.7	(1.15)	17.2	(3.88)	80.1	(4.13)
Maine	0.7	(0.40)	9.9	(1.41)	89.4	(1.44)	0.8	(0.44)	9.7	(1.44)	89.5	(1.48)
Maryland	6.2	(1.49)	15.0	(1.46)	78.8	(2.15)	5.0	(1.81)	12.6	(1.61)	82.3	(2.47)
Massachusetts	6.7	(2.06)	24.9	(3.67)	68.4	(3.67)	7.4	(2.44)	22.8	(3.62)	69.8	(3.69)
Michigan	1.1	(0.67)	13.1	(2.96)	85.8	(3.08)	0.2	(0.20)	10.7	(3.06)	89.1	(3.06)
Minnesota	3.4	(1.04)	17.9	(2.43)	78.7	(2.40)	3.3	(1.05)	15.1	(2.41)	81.7	(2.36)
Mississippi	5.1	(1.30)	23.9	(3.19)	71.0	(3.15)	4.6	(1.57)	20.7	(3.68)	74.7	(3.58)
Missouri	6.0	(1.89)	22.7	(3.09)	71.3	(3.50)	6.3	(2.12)	21.9	(3.18)	71.8	(3.70)
Montana	4.0	(0.98)	11.1	(1.06)	84.9	(1.33)	4.3	(1.11)	11.3	(1.10)	84.4	(1.45)
Nebraska	3.1	(0.98)	23.4	(1.97)	73.5	(2.04)	2.9	(1.25)	20.9	(2.38)	76.2	(2.46)
Nevada	8.6	(0.70)	13.7	(1.55)	77.7	(1.57)	3.9	(0.98)	8.3	(1.59)	87.8	(1.78)
New Hampshire	3.7	(0.62)	16.9	(1.68)	79.5	(1.75)	3.5	(0.68)	15.8	(1.55)	80.7	(1.62)
New Jersey	1.3	(0.64)	17.9	(2.80)	80.8	(2.83)	1.2	(0.97)	19.0	(3.35)	79.8	(3.43)
New Mexico	5.7	(0.84)	23.0	(2.39)	71.3	(2.43)	7.4	(1.37)	20.1	(2.31)	72.5	(2.56)
New York	2.0	(0.86)	11.5	(2.19)	86.5	(2.32)	0.5	(0.44)	6.1	(2.10)	93.4	(2.13)
North Carolina	4.2	(0.85)	24.9	(2.95)	70.9	(2.99)	3.4	(0.68)	25.2	(3.54)	71.4	(3.51)
North Dakota	3.9	(0.32)	23.8	(0.73)	72.2	(0.67)	4.2	(0.38)	25.1	(0.81)	70.7	(0.73)
Ohio	4.9	(1.73)	21.6	(3.56)	73.5	(3.75)	5.3	(1.94)	21.4	(3.83)	73.3	(4.02)
Oklahoma	4.9	(1.42)	24.9	(3.25)	70.2	(3.19)	5.7	(1.65)	25.2	(4.00)	69.1	(3.95)
Oregon	5.7	(1.51)	12.5	(2.12)	81.7	(2.71)	5.9	(1.77)	11.6	(2.20)	82.4	(2.83)
Pennsylvania	2.5	(1.43)	9.6	(2.22)	87.9	(2.54)	2.9	(1.94)	7.3	(1.94)	89.8	(2.67)
Rhode Island	5.4	(0.43)	12.9	(0.67)	81.7	(0.65)	3.5	(0.53)	10.4	(0.75)	86.0	(0.80)
South Carolina	4.5	(1.42)	18.9	(2.90)	76.6	(3.23)	3.2	(1.21)	18.6	(3.22)	78.2	(3.56)
South Dakota	1.3	(0.30)	18.2	(1.65)	80.5	(1.72)	1.3	(0.29)	16.1	(1.88)	82.6	(1.94)
Tennessee	5.6	(1.51)	28.0	(4.15)	66.3	(3.70)	5.5	(1.64)	25.7	(4.12)	68.9	(3.79)
Texas	7.5	(2.99)	23.5	(2.68)	69.0	(3.64)	3.3	(1.41)	22.4	(3.00)	74.3	(3.31)
Utah	7.1	(1.67)	32.7	(2.46)	60.2	(2.70)	6.4	(1.59)	31.6	(2.39)	61.9	(2.60)
Vermont	4.3	(0.34)	15.4	(0.48)	80.4	(0.60)	3.9	(0.37)	15.3	(0.53)	80.8	(0.67)
Virginia	6.1	(1.59)	23.5	(2.24)	70.4	(2.64)	4.7	(1.62)	21.2	(2.31)	74.1	(2.77)
Washington	5.9	(1.70)	16.3	(2.57)	77.9	(3.14)	5.7	(1.87)	14.0	(2.72)	80.3	(3.30)
West Virginia	6.4	(1.78)	22.4	(2.51)	71.1	(2.84)	6.3	(1.77)	22.1	(2.55)	71.6	(2.86)
Wisconsin	2.4	(0.70)	15.0	(2.78)	82.5	(2.81)	2.6	(0.78)	14.5	(2.86)	82.9	(2.93)
Wyoming	4.9	(0.37)	9.0	(0.50)	86.2	(0.57)	4.4	(0.44)	9.5	(0.58)	86.2	(0.63)
Department of Defense Dependents Schools	0.6	(0.16)	7.9	(0.51)	91.4	(0.53)	1.1	(0.20)	7.3	(0.94)	91.6	(0.95)

See notes at end of table.

**TABLE B-27.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Black						Hispanic		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
<b>Nation (public)</b>	<b>6.1</b> (0.63)	<b>24.2</b> (0.96)	<b>69.7</b> (1.03)	<b>7.1</b> (1.31)	<b>20.9</b> (1.29)	<b>72.0</b> (1.58)			
Alabama	0.6 (0.43)	24.2 (5.35)	75.1 (5.40)	0.9 (0.94)	32.8 (9.50)	66.3 (9.42)			
Alaska	‡ (†)	‡ (†)	‡ (†)	# (†)	13.1 (3.89)	86.9 (3.89)			
Arizona	4.7 (2.15)	20.9 (6.43)	74.4 (6.60)	8.2 (2.49)	20.4 (4.24)	71.4 (4.74)			
Arkansas	12.2 (3.67)	22.7 (3.40)	65.1 (4.56)	7.0 (2.09)	30.6 (5.54)	62.4 (5.65)			
California	13.1 (6.40)	18.3 (5.60)	68.6 (6.95)	7.3 (2.31)	19.3 (3.49)	73.5 (4.11)			
Colorado	5.6 (2.77)	23.1 (6.96)	71.3 (7.49)	15.9 (4.84)	27.0 (5.94)	57.2 (5.60)			
Connecticut	7.6 (3.17)	31.7 (6.28)	60.7 (5.35)	9.0 (3.22)	26.3 (3.82)	64.7 (4.51)			
Delaware	4.1 (0.57)	18.3 (1.33)	77.6 (1.42)	2.4 (0.84)	16.5 (1.94)	81.1 (2.19)			
District of Columbia	7.4 (0.57)	35.2 (1.19)	57.4 (1.16)	5.6 (1.69)	57.1 (3.32)	37.3 (3.34)			
Florida	7.0 (2.66)	30.0 (4.60)	63.0 (4.93)	2.4 (0.54)	23.1 (3.62)	74.6 (3.64)			
Georgia	4.5 (1.27)	16.4 (2.93)	79.1 (3.07)	7.9 (2.63)	15.0 (3.54)	77.0 (4.30)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	8.3 (2.96)	24.4 (4.26)	67.3 (4.03)			
Idaho	‡ (†)	‡ (†)	‡ (†)	6.9 (3.85)	18.8 (3.27)	74.3 (5.19)			
Illinois	5.5 (2.07)	23.6 (5.63)	70.9 (5.83)	2.0 (0.97)	19.6 (3.64)	78.4 (3.85)			
Indiana	6.3 (3.45)	32.6 (8.38)	61.1 (8.60)	1.8 (0.85)	21.8 (6.81)	76.4 (6.76)			
Iowa	3.7 (2.23)	29.9 (7.74)	66.4 (7.71)	5.4 (2.89)	22.0 (4.79)	72.6 (4.82)			
Kansas	5.8 (2.38)	25.3 (4.94)	68.9 (4.76)	5.1 (1.80)	22.0 (3.23)	73.0 (3.33)			
Kentucky	12.2 (1.95)	22.0 (3.85)	65.8 (4.68)	9.9 (2.83)	32.1 (6.94)	58.0 (6.87)			
Louisiana	11.1 (3.55)	24.5 (4.37)	64.4 (5.11)	2.4 (1.84)	13.7 (4.25)	83.9 (4.84)			
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maryland	7.6 (1.90)	17.0 (2.54)	75.4 (3.25)	6.0 (2.73)	21.3 (3.68)	72.7 (4.53)			
Massachusetts	6.6 (3.18)	28.2 (6.90)	65.2 (6.89)	2.8 (1.54)	34.8 (6.75)	62.4 (6.70)			
Michigan	4.3 (3.02)	22.0 (7.63)	73.8 (8.31)	3.1 (3.12)	8.5 (4.08)	88.4 (5.05)			
Minnesota	1.7 (1.24)	16.6 (4.58)	81.7 (4.81)	6.2 (3.61)	19.6 (5.15)	74.2 (5.52)			
Mississippi	5.8 (1.96)	27.0 (4.73)	67.3 (4.78)	3.2 (3.13)	25.4 (6.17)	71.4 (7.30)			
Missouri	2.7 (1.14)	25.6 (7.80)	71.7 (7.65)	9.2 (3.81)	28.3 (5.70)	62.5 (7.04)			
Montana	‡ (†)	‡ (†)	‡ (†)	5.9 (3.09)	15.8 (3.95)	78.3 (4.82)			
Nebraska	0.9 (0.86)	36.2 (4.08)	62.9 (4.18)	6.0 (1.44)	32.9 (3.20)	61.1 (3.09)			
Nevada	9.1 (1.94)	18.5 (5.91)	72.3 (5.84)	12.4 (0.94)	18.2 (1.94)	69.4 (2.10)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	6.8 (2.86)	24.0 (5.55)	69.2 (6.00)			
New Jersey	1.5 (0.95)	18.6 (3.94)	79.9 (3.94)	2.0 (1.11)	14.4 (3.33)	83.6 (3.69)			
New Mexico	‡ (†)	‡ (†)	‡ (†)	5.8 (1.07)	24.5 (2.79)	69.7 (2.87)			
New York	3.5 (1.88)	22.3 (6.67)	74.2 (6.79)	4.1 (1.86)	16.6 (3.98)	79.3 (4.32)			
North Carolina	6.4 (1.78)	23.4 (3.70)	70.2 (4.14)	3.8 (1.08)	26.5 (4.71)	69.7 (4.62)			
North Dakota	1.2 (1.17)	27.1 (4.97)	71.7 (5.27)	7.3 (2.47)	21.8 (4.91)	70.9 (5.25)			
Ohio	3.0 (1.94)	28.0 (7.91)	69.0 (7.85)	3.9 (3.54)	7.4 (4.03)	88.8 (5.35)			
Oklahoma	4.3 (2.35)	29.8 (5.62)	66.0 (5.96)	4.8 (2.64)	26.7 (5.57)	68.5 (4.51)			
Oregon	‡ (†)	‡ (†)	‡ (†)	5.5 (1.66)	14.1 (3.81)	80.4 (4.33)			
Pennsylvania	2.4 (1.64)	18.9 (8.63)	78.7 (9.04)	1.3 (1.32)	12.2 (5.06)	86.4 (4.65)			
Rhode Island	5.1 (1.87)	15.9 (2.98)	79.0 (3.60)	11.2 (1.16)	20.4 (1.63)	68.4 (1.88)			
South Carolina	6.9 (2.79)	18.1 (3.72)	75.0 (4.05)	3.5 (1.87)	18.6 (4.75)	77.9 (5.13)			
South Dakota	‡ (†)	‡ (†)	‡ (†)	# (†)	21.7 (4.48)	78.3 (4.48)			
Tennessee	7.3 (3.56)	36.0 (10.62)	56.8 (9.77)	1.6 (1.18)	32.5 (6.87)	65.9 (6.78)			
Texas	7.1 (3.93)	34.4 (6.77)	58.5 (5.82)	10.4 (5.07)	21.8 (3.18)	67.9 (5.55)			
Utah	‡ (†)	‡ (†)	‡ (†)	10.0 (3.18)	35.8 (5.61)	54.2 (6.00)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	7.8 (3.55)	30.5 (4.44)	61.7 (5.06)	8.6 (2.86)	26.9 (4.40)	64.6 (4.41)			
Washington	8.7 (4.33)	25.2 (6.01)	66.1 (6.53)	6.0 (2.60)	20.7 (5.27)	73.3 (5.82)			
West Virginia	11.0 (5.33)	26.0 (5.65)	63.0 (6.66)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	2.4 (1.36)	17.1 (6.89)	80.5 (6.93)	1.1 (0.78)	13.7 (4.55)	85.3 (4.62)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	6.0 (1.67)	7.6 (1.65)	86.4 (2.28)			
Department of Defense Dependents Schools	# (†)	6.2 (1.72)	93.8 (1.72)	1.1 (0.73)	9.8 (1.56)	89.1 (1.62)			

See notes at end of table.

**TABLE B-27.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

(Standard errors in parentheses)												
State	Asian						Pacific Islander					
	Years of experience of mathematics teacher						Years of experience of mathematics teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>3.6</b>	<b>(0.68)</b>	<b>16.5</b>	<b>(1.52)</b>	<b>79.8</b>	<b>(1.71)</b>	<b>10.3</b>	<b>(4.97)</b>	<b>17.1</b>	<b>(2.19)</b>	<b>72.7</b>	<b>(4.56)</b>
Alabama	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Alaska	0.7	(0.71)	11.9	(2.55)	87.4	(2.82)	‡	(†)	‡	(†)	‡	(†)
Arizona	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Arkansas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
California	3.4	(1.76)	10.8	(3.33)	85.8	(4.07)	‡	(†)	‡	(†)	‡	(†)
Colorado	7.3	(4.30)	22.6	(7.23)	70.0	(8.67)	‡	(†)	‡	(†)	‡	(†)
Connecticut	7.1	(3.52)	17.3	(4.68)	75.6	(5.48)	‡	(†)	‡	(†)	‡	(†)
Delaware	2.8	(1.92)	10.4	(4.09)	86.8	(4.40)	‡	(†)	‡	(†)	‡	(†)
District of Columbia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Florida	4.1	(3.09)	16.0	(6.76)	80.0	(7.19)	‡	(†)	‡	(†)	‡	(†)
Georgia	4.8	(2.54)	15.9	(5.69)	79.3	(5.66)	‡	(†)	‡	(†)	‡	(†)
Hawaii	5.0	(0.97)	21.9	(1.53)	73.1	(1.64)	7.2	(1.25)	23.6	(1.88)	69.2	(2.16)
Idaho	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Illinois	2.3	(1.84)	23.3	(4.66)	74.4	(4.56)	‡	(†)	‡	(†)	‡	(†)
Indiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Iowa	#	(†)	19.4	(5.50)	80.6	(5.50)	‡	(†)	‡	(†)	‡	(†)
Kansas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Kentucky	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Louisiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maine	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maryland	5.1	(2.31)	14.2	(4.03)	80.7	(5.21)	‡	(†)	‡	(†)	‡	(†)
Massachusetts	9.4	(3.99)	19.1	(5.13)	71.4	(5.64)	‡	(†)	‡	(†)	‡	(†)
Michigan	#	(†)	14.2	(4.89)	85.8	(4.89)	‡	(†)	‡	(†)	‡	(†)
Minnesota	2.8	(2.12)	47.8	(8.25)	49.4	(7.65)	‡	(†)	‡	(†)	‡	(†)
Mississippi	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Missouri	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Montana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nebraska	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nevada	10.4	(2.96)	9.4	(2.78)	80.2	(3.52)	‡	(†)	‡	(†)	‡	(†)
New Hampshire	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New Jersey	#	(†)	18.4	(4.09)	81.6	(4.09)	‡	(†)	‡	(†)	‡	(†)
New Mexico	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York	2.6	(2.18)	10.1	(2.54)	87.4	(3.33)	‡	(†)	‡	(†)	‡	(†)
North Carolina	5.8	(2.40)	23.9	(3.62)	70.3	(4.33)	‡	(†)	‡	(†)	‡	(†)
North Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Ohio	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oklahoma	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oregon	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Pennsylvania	#	(†)	8.5	(4.88)	91.5	(4.88)	‡	(†)	‡	(†)	‡	(†)
Rhode Island	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Carolina	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Tennessee	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Texas	5.1	(3.19)	27.9	(6.66)	67.0	(5.73)	‡	(†)	‡	(†)	‡	(†)
Utah	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Vermont	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Virginia	8.9	(4.21)	16.5	(4.03)	74.6	(5.75)	‡	(†)	‡	(†)	‡	(†)
Washington	2.0	(1.44)	15.9	(4.27)	82.0	(4.16)	‡	(†)	‡	(†)	‡	(†)
West Virginia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wisconsin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wyoming	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Department of Defense Dependents Schools	#	(†)	10.8	(2.41)	89.2	(2.41)	‡	(†)	‡	(†)	‡	(†)

See notes at end of table.

**TABLE B-27.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	American Indian/Alaska Native			Two or more races					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	3.9 (0.70)	20.0 (2.06)	76.1 (2.29)	4.4 (0.58)	19.2 (1.29)	76.3 (1.41)			
Alabama	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Alaska	0.7 (0.65)	19.1 (3.92)	80.2 (3.94)	# (†)	8.0 (2.19)	92.0 (2.19)			
Arizona	7.4 (4.09)	36.5 (12.42)	56.1 (11.44)	‡ (†)	‡ (†)	‡ (†)			
Arkansas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
California	‡ (†)	‡ (†)	‡ (†)	4.0 (4.19)	13.6 (6.63)	82.4 (7.77)			
Colorado	‡ (†)	‡ (†)	‡ (†)	5.7 (3.56)	16.4 (5.79)	77.9 (7.09)			
Connecticut	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Delaware	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Florida	‡ (†)	‡ (†)	‡ (†)	1.9 (0.81)	25.7 (5.16)	72.4 (5.14)			
Georgia	‡ (†)	‡ (†)	‡ (†)	10.6 (4.47)	15.4 (5.46)	74.0 (6.17)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	4.3 (1.80)	24.5 (3.21)	71.2 (3.62)			
Idaho	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Illinois	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Indiana	‡ (†)	‡ (†)	‡ (†)	4.8 (2.86)	22.3 (3.96)	72.9 (4.79)			
Iowa	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Kansas	‡ (†)	‡ (†)	‡ (†)	2.0 (1.40)	24.5 (5.65)	73.5 (5.66)			
Kentucky	‡ (†)	‡ (†)	‡ (†)	9.8 (4.52)	29.1 (7.41)	61.2 (7.61)			
Louisiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maryland	‡ (†)	‡ (†)	‡ (†)	9.0 (5.31)	13.1 (4.01)	77.9 (6.06)			
Massachusetts	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Michigan	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Minnesota	12.7 (6.42)	21.3 (6.93)	66.1 (8.97)	‡ (†)	‡ (†)	‡ (†)			
Mississippi	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Missouri	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Montana	1.9 (0.95)	7.9 (3.40)	90.2 (3.49)	‡ (†)	‡ (†)	‡ (†)			
Nebraska	‡ (†)	‡ (†)	‡ (†)	# (†)	22.3 (4.18)	77.7 (4.18)			
Nevada	‡ (†)	‡ (†)	‡ (†)	8.6 (2.77)	11.6 (3.35)	79.8 (3.78)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Jersey	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Mexico	1.0 (0.59)	19.7 (7.25)	79.3 (7.29)	‡ (†)	‡ (†)	‡ (†)			
New York	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
North Carolina	5.0 (2.61)	15.9 (7.93)	79.2 (8.57)	1.9 (2.23)	26.5 (6.74)	71.5 (6.66)			
North Dakota	1.5 (0.81)	11.8 (1.94)	86.7 (2.14)	‡ (†)	‡ (†)	‡ (†)			
Ohio	‡ (†)	‡ (†)	‡ (†)	4.5 (2.56)	20.3 (6.60)	75.2 (6.88)			
Oklahoma	3.9 (1.67)	22.2 (4.58)	73.9 (4.57)	3.9 (2.02)	22.3 (5.01)	73.7 (5.09)			
Oregon	‡ (†)	‡ (†)	‡ (†)	3.9 (1.85)	14.1 (3.75)	82.0 (4.12)			
Pennsylvania	‡ (†)	‡ (†)	‡ (†)	# (†)	5.0 (2.70)	95.0 (2.70)			
Rhode Island	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
South Carolina	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
South Dakota	1.5 (1.09)	32.6 (3.51)	65.9 (3.83)	‡ (†)	‡ (†)	‡ (†)			
Tennessee	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Texas	‡ (†)	‡ (†)	‡ (†)	6.6 (4.29)	27.8 (10.11)	65.6 (10.32)			
Utah	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	‡ (†)	‡ (†)	‡ (†)	4.9 (2.36)	17.7 (4.49)	77.4 (5.29)			
Washington	15.2 (8.51)	7.8 (4.07)	77.0 (8.80)	4.8 (2.58)	15.5 (4.59)	79.7 (4.79)			
West Virginia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	# (†)	19.2 (8.07)	80.8 (8.07)	‡ (†)	‡ (†)	‡ (†)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Department of Defense Dependents Schools	‡ (†)	‡ (†)	‡ (†)	# (†)	7.6 (1.97)	92.4 (1.97)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-28.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and jurisdiction: 2015

(Standard errors in parentheses)								
Jurisdiction	White							
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	<b>5.0 (0.42)</b>	<b>19.7 (0.59)</b>	<b>75.3 (0.59)</b>	<b>3.8 (0.32)</b>	<b>18.3 (0.55)</b>	<b>77.9 (0.57)</b>		
Large city	8.2 (2.03)	20.8 (1.92)	71.0 (1.92)	4.5 (0.82)	20.2 (1.27)	75.3 (1.09)		
Albuquerque	10.1 (1.91)	30.9 (2.11)	59.0 (2.11)	14.7 (4.70)	28.5 (3.70)	56.9 (4.70)		
Atlanta	7.7 (0.55)	17.5 (0.81)	74.8 (0.81)	18.0 (3.26)	17.0 (2.63)	65.0 (3.63)		
Austin	6.1 (0.60)	23.9 (1.13)	70.0 (1.13)	4.7 (1.25)	15.3 (1.93)	80.0 (2.09)		
Baltimore City	7.8 (2.77)	24.1 (5.52)	68.1 (5.52)	11.5 (6.36)	17.4 (4.97)	71.1 (5.95)		
Boston	0.8 (0.08)	22.6 (1.21)	76.6 (1.21)	2.4 (0.50)	6.8 (2.30)	90.8 (2.33)		
Charlotte	9.2 (1.98)	27.2 (3.20)	63.6 (3.20)	1.5 (0.64)	28.4 (2.95)	70.2 (3.02)		
Chicago	2.6 (1.52)	21.8 (4.07)	75.6 (4.07)	# (†)	15.7 (6.31)	84.3 (6.31)		
Cleveland	1.4 (0.26)	5.0 (0.46)	93.5 (0.46)	# (†)	8.9 (2.13)	91.1 (2.13)		
Dallas	5.8 (0.79)	25.3 (1.85)	68.9 (1.85)	‡ (†)	‡ (†)	‡ (†)		
Detroit	# (†)	2.3 (0.25)	97.7 (0.25)	‡ (†)	‡ (†)	‡ (†)		
District of Columbia (DCPS)	2.2 (0.39)	47.6 (1.40)	50.2 (1.40)	1.2 (1.16)	78.2 (4.13)	20.6 (4.00)		
Fresno	7.1 (0.71)	8.1 (0.84)	84.8 (0.84)	2.2 (1.42)	11.6 (2.50)	86.2 (2.92)		
Hillsborough County (FL)	11.0 (1.51)	18.1 (2.35)	70.9 (2.35)	8.9 (2.37)	16.6 (2.27)	74.5 (3.28)		
Houston	4.8 (0.74)	33.9 (2.62)	61.2 (2.62)	4.5 (1.92)	30.4 (4.14)	65.0 (4.23)		
Jefferson County (KY)	16.1 (1.03)	19.9 (1.96)	64.0 (1.96)	13.5 (1.48)	16.8 (1.95)	69.7 (2.63)		
Los Angeles	4.2 (1.19)	10.1 (2.92)	85.7 (2.92)	1.8 (1.33)	8.4 (7.26)	89.8 (7.20)		
Miami-Dade	0.6 (0.44)	13.9 (3.76)	85.4 (3.76)	# (†)	4.1 (2.17)	95.9 (2.17)		
New York City	4.2 (2.27)	19.3 (4.00)	76.5 (4.00)	5.2 (4.51)	11.3 (3.17)	83.5 (5.67)		
Philadelphia	1.6 (1.37)	6.8 (3.36)	91.6 (3.36)	# (†)	8.8 (6.14)	91.2 (6.14)		
San Diego	3.3 (0.61)	8.3 (2.46)	88.4 (2.46)	4.0 (1.38)	4.4 (1.25)	91.6 (2.03)		
Duval County (FL)	3.2 (0.68)	22.9 (2.12)	73.9 (2.12)	3.6 (1.03)	18.6 (3.76)	77.8 (3.17)		
Jurisdiction	Black			Hispanic				
	Years of experience of mathematics teacher			Years of experience of mathematics teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	<b>6.1 (0.63)</b>	<b>24.2 (0.96)</b>	<b>69.7 (1.03)</b>	<b>7.1 (1.31)</b>	<b>20.9 (1.29)</b>	<b>72.0 (1.58)</b>		
Large city	6.5 (1.11)	27.9 (2.27)	65.5 (2.29)	11.3 (4.09)	17.9 (1.71)	70.7 (3.67)		
Albuquerque	‡ (†)	‡ (†)	‡ (†)	8.2 (1.63)	32.9 (2.31)	58.9 (2.16)		
Atlanta	5.7 (0.51)	18.5 (0.77)	75.8 (0.93)	15.9 (4.26)	8.3 (3.17)	75.8 (4.96)		
Austin	4.3 (3.00)	34.6 (5.34)	61.2 (5.52)	7.7 (0.87)	27.7 (1.36)	64.6 (1.38)		
Baltimore City	8.6 (3.06)	21.2 (5.21)	70.2 (5.93)	# (†)	54.9 (10.13)	45.1 (10.13)		
Boston	0.2 (0.22)	31.8 (2.23)	68.0 (2.19)	0.4 (0.25)	24.1 (2.25)	75.6 (2.25)		
Charlotte	13.4 (2.90)	25.3 (3.67)	61.3 (3.95)	14.6 (4.27)	28.6 (5.04)	56.8 (6.33)		
Chicago	6.0 (3.58)	25.2 (6.16)	68.8 (6.82)	# (†)	20.3 (4.45)	79.7 (4.45)		
Cleveland	2.3 (0.43)	2.9 (0.60)	94.8 (0.74)	# (†)	5.8 (1.75)	94.2 (1.75)		
Dallas	2.6 (1.50)	23.3 (3.61)	74.2 (3.68)	6.7 (0.93)	26.8 (2.27)	66.5 (2.34)		
Detroit	# (†)	2.9 (0.32)	97.1 (0.32)	# (†)	# (†)	100.0 <sup>1</sup> (†)		
District of Columbia (DCPS)	2.5 (0.60)	40.3 (1.98)	57.2 (1.92)	1.2 (1.11)	44.0 (5.05)	54.7 (5.19)		
Fresno	‡ (†)	‡ (†)	‡ (†)	8.1 (0.98)	7.8 (0.78)	84.1 (1.21)		
Hillsborough County (FL)	12.6 (3.12)	15.0 (3.19)	72.4 (3.63)	12.5 (2.41)	23.5 (3.41)	64.0 (4.10)		
Houston	4.2 (1.66)	36.2 (5.53)	59.6 (5.39)	4.5 (0.80)	34.8 (2.74)	60.6 (2.68)		
Jefferson County (KY)	19.1 (2.35)	23.2 (2.39)	57.7 (3.30)	21.0 (4.74)	30.0 (5.58)	49.1 (5.84)		
Los Angeles	3.4 (3.28)	16.0 (7.91)	80.6 (7.99)	4.5 (1.24)	10.2 (2.73)	85.3 (2.97)		
Miami-Dade	# (†)	28.0 (9.84)	72.0 (9.84)	0.9 (0.63)	11.7 (2.72)	87.4 (3.03)		
New York City	2.8 (1.68)	25.5 (5.18)	71.7 (5.39)	4.8 (3.04)	22.3 (5.17)	72.9 (6.03)		
Philadelphia	3.2 (2.82)	5.2 (2.32)	91.6 (3.72)	# (†)	9.8 (4.68)	90.2 (4.68)		
San Diego	‡ (†)	‡ (†)	‡ (†)	4.0 (1.00)	12.3 (4.52)	83.8 (4.36)		
Duval County (FL)	2.9 (0.88)	26.8 (3.56)	70.3 (3.41)	2.7 (2.03)	29.4 (5.35)	67.9 (5.78)		

See notes at end of table.

**TABLE B-28.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, race/ethnicity, and jurisdiction: 2015—Continued

(Standard errors in parentheses)									
Jurisdiction	Asian					Pacific Islander			
	Years of experience of mathematics teacher					Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	3.6 (0.68)	16.5 (1.52)	79.8 (1.71)	10.3 (4.97)	17.1 (2.19)	72.7 (4.56)			
Large city	4.7 (1.98)	16.0 (1.91)	79.3 (2.97)	25.4 (20.63)	19.4 (6.62)	55.2 (16.08)			
Albuquerque	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Atlanta	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Austin	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Baltimore City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Boston	1.3 (0.90)	9.8 (2.23)	88.8 (2.35)	‡ (†)	‡ (†)	‡ (†)			
Charlotte	6.6 (3.30)	23.7 (6.26)	69.7 (6.97)	‡ (†)	‡ (†)	‡ (†)			
Chicago	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Cleveland	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Dallas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Detroit	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia (DCPS)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Fresno	5.8 (2.80)	1.5 (1.45)	92.7 (3.10)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Houston	9.1 (3.43)	17.5 (5.68)	73.5 (7.39)	‡ (†)	‡ (†)	‡ (†)			
Jefferson County (KY)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Los Angeles	4.9 (3.02)	4.8 (3.20)	90.2 (5.08)	‡ (†)	‡ (†)	‡ (†)			
Miami-Dade	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New York City	4.2 (3.57)	11.7 (2.97)	84.1 (4.73)	‡ (†)	‡ (†)	‡ (†)			
Philadelphia	# (†)	2.4 (1.88)	97.6 (1.88)	‡ (†)	‡ (†)	‡ (†)			
San Diego	0.6 (0.61)	4.0 (1.72)	95.4 (1.83)	‡ (†)	‡ (†)	‡ (†)			
Duval County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Jurisdiction	American Indian/Alaska Native			Two or more races					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	3.9 (0.70)	20.0 (2.06)	76.1 (2.29)	4.4 (0.58)	19.2 (1.29)	76.3 (1.41)			
Large city	3.3 (1.70)	14.1 (4.76)	82.6 (5.29)	7.1 (2.69)	19.2 (3.79)	73.6 (4.67)			
Albuquerque	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Atlanta	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Austin	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Baltimore City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Boston	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Charlotte	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Chicago	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Cleveland	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Dallas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Detroit	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia (DCPS)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Fresno	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Houston	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Jefferson County (KY)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Los Angeles	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Miami-Dade	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New York City	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Philadelphia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
San Diego	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Duval County (FL)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-29.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, disability status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)								
	Years of experience of mathematics teacher			With a disability			Without a disability		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	5.1 (0.56)	20.7 (0.78)	74.2 (0.76)	4.9 (0.42)	19.6 (0.60)	75.4 (0.62)
<b>Location</b>									
City	7.7 (1.21)	20.2 (1.06)	72.1 (1.35)	7.5 (1.57)	23.0 (1.39)	69.5 (1.82)	7.8 (1.23)	19.8 (1.10)	72.5 (1.40)
Suburban	4.0 (0.61)	19.1 (0.94)	76.9 (1.08)	4.3 (0.63)	19.4 (1.14)	76.3 (1.29)	3.9 (0.64)	19.1 (0.98)	77.0 (1.13)
Town	3.7 (0.52)	19.8 (1.91)	76.5 (1.83)	5.0 (0.97)	23.7 (2.92)	71.3 (2.82)	3.5 (0.51)	19.3 (1.93)	77.2 (1.83)
Rural	3.8 (0.54)	20.4 (1.15)	75.7 (1.21)	3.4 (0.49)	18.4 (1.61)	78.2 (1.67)	3.9 (0.57)	20.7 (1.17)	75.4 (1.24)
<b>Minority enrollment</b>									
75 percent or more	8.6 (1.47)	22.4 (1.51)	69.0 (1.88)	8.5 (1.80)	24.7 (1.83)	66.8 (2.10)	8.7 (1.48)	22.1 (1.59)	69.3 (1.98)
Less than 75 percent	3.7 (0.24)	18.8 (0.63)	77.5 (0.67)	4.0 (0.38)	19.3 (0.81)	76.7 (0.84)	3.7 (0.24)	18.8 (0.66)	77.6 (0.70)

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-30.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, disability status, and state: 2015

State	(Standard errors in parentheses)								
	Years of experience of mathematics teacher			With a disability			Without a disability		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	5.1 (0.56)	20.7 (0.78)	74.2 (0.76)	4.9 (0.42)	19.6 (0.60)	75.4 (0.62)
Alabama	1.0 (0.48)	25.5 (3.65)	73.5 (3.64)	0.5 (0.51)	22.1 (5.18)	77.4 (5.23)	1.0 (0.53)	25.9 (3.66)	73.1 (3.65)
Alaska	0.6 (0.20)	10.6 (1.20)	88.8 (1.20)	0.0 (0.00)	11.3 (2.75)	88.7 (2.75)	0.6 (0.23)	10.4 (1.28)	88.9 (1.28)
Arizona	7.3 (1.69)	21.2 (3.22)	71.6 (3.35)	7.3 (2.28)	21.5 (4.28)	71.1 (5.03)	7.3 (1.78)	21.1 (3.26)	71.7 (3.33)
Arkansas	6.7 (1.44)	23.8 (2.96)	69.5 (3.24)	4.1 (1.46)	18.2 (3.28)	77.7 (3.44)	7.0 (1.53)	24.4 (3.07)	68.6 (3.38)
California	5.7 (1.70)	17.6 (2.75)	76.7 (3.28)	4.3 (1.79)	21.7 (3.93)	74.0 (4.03)	5.8 (1.80)	17.2 (2.80)	77.0 (3.40)
Colorado	9.8 (2.43)	23.8 (3.72)	66.4 (3.80)	12.4 (3.72)	29.9 (6.59)	57.7 (6.60)	9.6 (2.35)	23.2 (3.65)	67.3 (3.71)
Connecticut	6.1 (1.56)	23.5 (2.63)	70.4 (2.59)	5.7 (2.14)	25.0 (3.89)	69.3 (3.65)	6.2 (1.59)	23.2 (2.57)	70.6 (2.60)
Delaware	3.3 (0.29)	14.9 (0.62)	81.8 (0.69)	3.7 (0.83)	20.7 (2.33)	75.6 (2.29)	3.3 (0.32)	13.8 (0.68)	82.9 (0.75)
District of Columbia	7.2 (0.43)	42.6 (0.90)	50.2 (0.86)	7.4 (1.66)	37.5 (3.25)	55.1 (3.35)	7.1 (0.60)	43.6 (1.06)	49.3 (1.04)
Florida	3.1 (0.85)	24.1 (2.88)	72.8 (2.97)	5.5 (2.22)	27.8 (4.87)	66.7 (4.90)	2.7 (0.70)	23.6 (2.86)	73.7 (2.94)
Georgia	6.0 (1.57)	16.3 (2.31)	77.7 (2.70)	6.1 (2.68)	12.1 (2.23)	81.8 (3.47)	6.0 (1.63)	16.8 (2.46)	77.2 (2.80)
Hawaii	6.5 (0.72)	24.3 (1.20)	69.2 (1.09)	8.3 (2.29)	30.0 (4.19)	61.8 (4.36)	6.3 (0.69)	23.6 (1.22)	70.0 (1.17)
Idaho	6.4 (1.62)	25.0 (2.17)	68.6 (2.59)	7.9 (2.91)	24.3 (4.17)	67.8 (4.59)	6.2 (1.57)	25.0 (2.18)	68.7 (2.59)
Illinois	5.3 (1.98)	19.1 (2.86)	75.6 (3.32)	4.7 (2.00)	25.2 (4.31)	70.1 (4.49)	5.4 (2.05)	18.3 (2.85)	76.3 (3.33)
Indiana	2.1 (0.81)	18.4 (2.92)	79.5 (3.16)	2.0 (1.13)	20.8 (4.62)	77.3 (5.10)	2.1 (0.90)	18.0 (2.82)	79.9 (3.06)
Iowa	2.7 (0.86)	24.1 (2.77)	73.2 (2.66)	2.8 (1.37)	24.5 (4.06)	72.8 (3.95)	2.7 (0.93)	24.1 (2.79)	73.2 (2.71)

See notes at end of table.

**TABLE B-30.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, disability status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			With a disability			Without a disability					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
Kansas	3.9 (1.13)	19.5 (2.63)	76.6 (2.79)	3.6 (1.44)	15.3 (2.42)	81.1 (2.80)	3.9 (1.15)	20.0 (2.79)	76.0 (2.96)			
Kentucky	7.0 (1.15)	22.1 (2.67)	70.9 (2.77)	4.9 (1.24)	27.9 (4.35)	67.2 (4.13)	7.3 (1.22)	21.3 (2.66)	71.4 (2.80)			
Louisiana	6.6 (1.96)	20.1 (3.41)	73.3 (3.91)	7.3 (2.62)	22.2 (4.71)	70.6 (5.01)	6.5 (1.94)	19.7 (3.42)	73.8 (3.97)			
Maine	0.7 (0.40)	9.9 (1.41)	89.4 (1.44)	0.4 (0.40)	12.2 (3.08)	87.4 (3.08)	0.8 (0.44)	9.4 (1.29)	89.8 (1.33)			
Maryland	6.2 (1.49)	15.0 (1.46)	78.8 (2.15)	4.8 (1.46)	15.5 (3.19)	79.7 (3.54)	6.4 (1.62)	15.0 (1.50)	78.7 (2.30)			
Massachusetts	6.7 (2.06)	24.9 (3.67)	68.4 (3.67)	7.2 (2.50)	21.6 (4.28)	71.1 (4.33)	6.6 (2.07)	25.6 (3.73)	67.8 (3.75)			
Michigan	1.1 (0.67)	13.1 (2.96)	85.8 (3.08)	1.8 (1.32)	12.7 (3.35)	85.5 (3.64)	1.0 (0.61)	13.1 (2.99)	85.9 (3.10)			
Minnesota	3.4 (1.04)	17.9 (2.43)	78.7 (2.40)	1.6 (0.99)	16.7 (3.33)	81.7 (3.46)	3.6 (1.14)	18.1 (2.55)	78.3 (2.50)			
Mississippi	5.1 (1.30)	23.9 (3.19)	71.0 (3.15)	5.5 (1.46)	25.1 (4.45)	69.4 (4.26)	5.0 (1.42)	23.8 (3.19)	71.2 (3.19)			
Missouri	6.0 (1.89)	22.7 (3.09)	71.3 (3.50)	5.8 (2.27)	25.5 (4.24)	68.7 (4.59)	6.0 (1.92)	22.3 (3.14)	71.7 (3.54)			
Montana	4.0 (0.98)	11.1 (1.06)	84.9 (1.33)	7.5 (2.08)	8.9 (2.28)	83.5 (2.84)	3.6 (1.01)	11.3 (1.12)	85.1 (1.42)			
Nebraska	3.1 (0.98)	23.4 (1.97)	73.5 (2.04)	4.4 (1.46)	29.1 (3.13)	66.5 (3.54)	2.9 (1.00)	22.6 (2.08)	74.5 (2.10)			
Nevada	8.6 (0.70)	13.7 (1.55)	77.7 (1.57)	9.6 (2.12)	17.8 (3.36)	72.6 (3.52)	8.5 (0.73)	13.3 (1.57)	78.2 (1.59)			
New Hampshire	3.7 (0.62)	16.9 (1.68)	79.5 (1.75)	4.2 (1.39)	18.0 (2.30)	77.8 (2.41)	3.6 (0.56)	16.7 (1.75)	79.8 (1.80)			
New Jersey	1.3 (0.64)	17.9 (2.80)	80.8 (2.83)	2.3 (1.20)	19.9 (3.60)	77.8 (3.57)	1.1 (0.64)	17.6 (2.85)	81.4 (2.90)			
New Mexico	5.7 (0.84)	23.0 (2.39)	71.3 (2.43)	6.8 (2.69)	26.6 (4.26)	66.6 (4.45)	5.6 (0.74)	22.5 (2.35)	71.9 (2.34)			
New York	2.0 (0.86)	11.5 (2.19)	86.5 (2.32)	2.1 (1.10)	13.9 (2.92)	84.0 (3.12)	2.0 (0.87)	11.1 (2.19)	86.9 (2.30)			
North Carolina	4.2 (0.85)	24.9 (2.95)	70.9 (2.99)	3.1 (1.26)	21.7 (3.30)	75.2 (3.52)	4.4 (0.90)	25.4 (3.10)	70.2 (3.10)			
North Dakota	3.9 (0.32)	23.8 (0.73)	72.2 (0.67)	1.7 (0.84)	16.9 (2.49)	81.4 (2.55)	4.2 (0.35)	24.8 (0.80)	70.9 (0.76)			
Ohio	4.9 (1.73)	21.6 (3.56)	73.5 (3.75)	7.5 (2.67)	24.1 (4.55)	68.5 (5.08)	4.5 (1.64)	21.3 (3.77)	74.3 (3.89)			
Oklahoma	4.9 (1.42)	24.9 (3.25)	70.2 (3.19)	3.5 (1.48)	28.5 (4.62)	68.0 (4.33)	5.2 (1.55)	24.3 (3.32)	70.6 (3.30)			
Oregon	5.7 (1.51)	12.5 (2.12)	81.7 (2.71)	6.7 (2.05)	14.5 (4.07)	78.9 (4.37)	5.5 (1.53)	12.3 (1.97)	82.2 (2.66)			
Pennsylvania	2.5 (1.43)	9.6 (2.22)	87.9 (2.54)	2.3 (1.38)	11.5 (3.11)	86.2 (3.27)	2.6 (1.47)	9.2 (2.16)	88.2 (2.52)			
Rhode Island	5.4 (0.43)	12.9 (0.67)	81.7 (0.65)	5.6 (1.21)	13.6 (1.96)	80.8 (2.28)	5.3 (0.52)	12.8 (0.78)	81.9 (0.74)			
South Carolina	4.5 (1.42)	18.9 (2.90)	76.6 (3.23)	3.1 (1.36)	22.7 (5.03)	74.2 (5.07)	4.7 (1.52)	18.4 (2.84)	76.9 (3.24)			
South Dakota	1.3 (0.30)	18.2 (1.65)	80.5 (1.72)	0.5 (0.43)	20.1 (2.65)	79.4 (2.59)	1.4 (0.32)	18.0 (1.80)	80.6 (1.88)			
Tennessee	5.6 (1.51)	28.0 (4.15)	66.3 (3.70)	6.1 (1.65)	32.3 (6.35)	61.5 (6.21)	5.6 (1.62)	27.4 (4.07)	67.1 (3.55)			
Texas	7.5 (2.99)	23.5 (2.68)	69.0 (3.64)	9.4 (4.67)	19.1 (3.72)	71.6 (5.29)	7.3 (2.90)	24.0 (2.74)	68.7 (3.68)			
Utah	7.1 (1.67)	32.7 (2.46)	60.2 (2.70)	11.3 (3.65)	27.1 (3.49)	61.6 (4.65)	6.6 (1.61)	33.3 (2.68)	60.0 (2.78)			
Vermont	4.3 (0.34)	15.4 (0.48)	80.4 (0.60)	2.5 (0.74)	17.1 (1.84)	80.3 (2.02)	4.6 (0.45)	15.0 (0.65)	80.4 (0.86)			
Virginia	6.1 (1.59)	23.5 (2.24)	70.4 (2.64)	7.4 (2.41)	27.7 (4.03)	65.0 (4.08)	5.9 (1.57)	22.9 (2.30)	71.1 (2.70)			
Washington	5.9 (1.70)	16.3 (2.57)	77.9 (3.14)	7.6 (3.23)	14.1 (3.48)	78.3 (4.73)	5.7 (1.70)	16.5 (2.68)	77.8 (3.24)			
West Virginia	6.4 (1.78)	22.4 (2.51)	71.1 (2.84)	10.8 (3.27)	20.3 (3.11)	68.9 (4.08)	5.8 (1.76)	22.8 (2.67)	71.5 (2.99)			
Wisconsin	2.4 (0.70)	15.0 (2.78)	82.5 (2.81)	1.7 (1.04)	21.5 (4.87)	76.7 (4.93)	2.5 (0.76)	14.1 (2.61)	83.3 (2.66)			
Wyoming	4.9 (0.37)	9.0 (0.50)	86.2 (0.57)	5.6 (1.53)	11.9 (1.93)	82.5 (2.29)	4.8 (0.41)	8.5 (0.50)	86.7 (0.63)			
Department of Defense Dependents Schools	0.6 (0.16)	7.9 (0.51)	91.4 (0.53)	1.3 (1.20)	8.8 (2.81)	89.9 (2.97)	0.6 (0.14)	7.8 (0.58)	91.6 (0.60)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-31.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, disability status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)									
	Years of experience of mathematics teacher			With a disability			Without a disability			
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	5.1 (0.56)	20.7 (0.78)	74.2 (0.76)	4.9 (0.42)	19.6 (0.60)	75.4 (0.62)	
Large city	8.2 (2.03)	20.8 (1.18)	71.0 (1.92)	6.7 (1.67)	24.0 (1.80)	69.4 (2.05)	8.4 (2.12)	20.4 (1.21)	71.2 (2.01)	
Albuquerque	10.1 (1.91)	30.9 (2.05)	59.0 (2.11)	8.9 (4.80)	25.2 (5.08)	65.9 (4.81)	10.2 (1.73)	31.7 (2.04)	58.1 (2.08)	
Atlanta	7.7 (0.55)	17.5 (0.60)	74.8 (0.81)	2.9 (1.36)	17.0 (3.20)	80.1 (3.24)	8.3 (0.64)	17.6 (0.69)	74.1 (0.96)	
Austin	6.1 (0.60)	23.9 (1.07)	70.0 (1.13)	5.8 (1.68)	28.0 (3.27)	66.3 (3.73)	6.2 (0.72)	23.2 (1.29)	70.6 (1.32)	
Baltimore City	7.8 (2.77)	24.1 (4.93)	68.1 (5.52)	12.6 (4.77)	21.1 (5.42)	66.3 (6.85)	6.5 (2.50)	24.8 (5.12)	68.7 (5.59)	
Boston	0.8 (0.08)	22.6 (1.22)	76.6 (1.21)	1.8 (0.62)	30.1 (3.88)	68.0 (3.95)	0.6 (0.08)	21.1 (1.30)	78.3 (1.30)	
Charlotte	9.2 (1.98)	27.2 (3.00)	63.6 (3.20)	13.7 (4.92)	40.2 (5.76)	46.1 (5.79)	8.7 (1.85)	25.9 (2.89)	65.4 (3.13)	
Chicago	2.6 (1.52)	21.8 (3.84)	75.6 (4.07)	2.8 (1.29)	21.4 (4.91)	75.9 (5.08)	2.5 (1.59)	21.9 (4.15)	75.6 (4.38)	
Cleveland	1.4 (0.26)	5.0 (0.39)	93.5 (0.46)	‡ (†)	‡ (†)	‡ (†)	1.5 (0.37)	5.6 (0.41)	92.9 (0.54)	
Dallas	5.8 (0.79)	25.3 (1.83)	68.9 (1.85)	‡ (†)	‡ (†)	‡ (†)	5.8 (0.84)	24.6 (1.84)	69.5 (1.89)	
Detroit	# (†)	2.3 (0.25)	97.7 (0.25)	# (†)	0.9 (0.92)	99.1 (0.92)	# (†)	2.5 (0.26)	97.5 (0.26)	
District of Columbia (DCPS)	2.2 (0.39)	47.6 (1.45)	50.2 (1.40)	1.0 (0.92)	37.0 (4.59)	62.0 (4.63)	2.4 (0.49)	49.6 (1.76)	48.0 (1.68)	
Fresno	7.1 (0.71)	8.1 (0.53)	84.8 (0.84)	‡ (†)	‡ (†)	‡ (†)	6.3 (0.73)	7.2 (0.48)	86.5 (0.76)	
Hillsborough County (FL)	11.0 (1.51)	18.1 (2.06)	70.9 (2.35)	10.3 (2.71)	21.6 (4.71)	68.1 (5.24)	11.1 (1.58)	17.4 (1.97)	71.5 (2.33)	
Houston	4.8 (0.74)	33.9 (2.68)	61.2 (2.62)	0.9 (0.93)	45.0 (6.02)	54.1 (5.87)	5.2 (0.82)	32.9 (2.53)	61.9 (2.48)	
Jefferson County (KY)	16.1 (1.03)	19.9 (1.53)	64.0 (1.96)	20.8 (3.65)	34.7 (6.00)	44.4 (5.83)	15.5 (1.04)	18.1 (1.30)	66.5 (1.78)	
Los Angeles	4.2 (1.19)	10.1 (2.74)	85.7 (2.92)	8.9 (2.62)	14.3 (4.43)	76.8 (4.40)	3.5 (1.16)	9.5 (2.70)	86.9 (2.88)	
Miami-Dade	0.6 (0.44)	13.9 (3.64)	85.4 (3.76)	# (†)	11.7 (4.42)	88.3 (4.42)	0.7 (0.48)	14.1 (3.72)	85.2 (3.85)	
New York City	4.2 (2.27)	19.3 (3.25)	76.5 (4.00)	4.2 (2.49)	23.5 (4.71)	72.3 (5.38)	4.2 (2.40)	18.5 (3.44)	77.3 (4.16)	
Philadelphia	1.6 (1.37)	6.8 (3.05)	91.6 (3.36)	2.3 (1.96)	4.4 (3.11)	93.2 (3.64)	1.4 (1.27)	7.2 (3.36)	91.3 (3.62)	
San Diego	3.3 (0.61)	8.3 (2.43)	88.4 (2.46)	4.6 (1.70)	15.6 (7.90)	79.8 (7.53)	3.1 (0.62)	7.5 (1.91)	89.4 (1.99)	
Duval County (FL)	3.2 (0.68)	22.9 (2.49)	73.9 (2.12)	3.9 (1.88)	27.7 (4.21)	68.5 (3.85)	3.1 (0.69)	22.3 (2.48)	74.5 (2.17)	

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-32.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner Years of experience of mathematics teacher			Not English language learner Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	7.1 (1.14)	22.2 (1.73)	70.7 (1.87)	4.8 (0.40)	19.6 (0.56)	75.6 (0.56)			
<b>Location</b>												
City	7.7 (1.21)	20.2 (1.06)	72.1 (1.35)	9.7 (1.88)	19.6 (2.18)	70.7 (2.45)	7.5 (1.23)	20.2 (1.04)	72.3 (1.34)			
Suburban	4.0 (0.61)	19.1 (0.94)	76.9 (1.08)	5.2 (2.09)	23.5 (3.04)	71.2 (3.26)	3.9 (0.54)	18.8 (0.92)	77.3 (1.05)			
Town	3.7 (0.52)	19.8 (1.91)	76.5 (1.83)	4.9 (1.66)	24.6 (5.88)	70.5 (5.87)	3.6 (0.52)	19.6 (1.87)	76.8 (1.80)			
Rural	3.8 (0.54)	20.4 (1.15)	75.7 (1.21)	3.4 (1.02)	28.3 (5.97)	68.3 (5.74)	3.9 (0.55)	20.2 (1.11)	75.9 (1.18)			
<b>Minority enrollment</b>												
75 percent or more	8.6 (1.47)	22.4 (1.51)	69.0 (1.88)	9.3 (1.96)	21.7 (2.35)	69.0 (2.77)	8.5 (1.52)	22.5 (1.53)	69.0 (1.92)			
Less than 75 percent	3.7 (0.24)	18.8 (0.63)	77.5 (0.67)	3.9 (0.64)	22.9 (2.35)	73.2 (2.37)	3.7 (0.24)	18.7 (0.62)	77.6 (0.66)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-33.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner Years of experience of mathematics teacher			Not English language learner Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	7.1 (1.14)	22.2 (1.73)	70.7 (1.87)	4.8 (0.40)	19.6 (0.56)	75.6 (0.56)			
Alabama	1.0 (0.48)	25.5 (3.65)	73.5 (3.64)	‡ (†)	‡ (†)	‡ (†)	1.0 (0.49)	25.6 (3.65)	73.4 (3.65)			
Alaska	0.6 (0.20)	10.6 (1.20)	88.8 (1.20)	‡ (†)	21.7 (5.35)	78.3 (5.35)	0.6 (0.22)	9.0 (0.89)	90.3 (0.90)			
Arizona	7.3 (1.69)	21.2 (3.22)	71.6 (3.35)	7.2 (4.35)	11.5 (5.29)	81.4 (7.03)	7.3 (1.71)	21.5 (3.21)	71.3 (3.31)			
Arkansas	6.7 (1.44)	23.8 (2.96)	69.5 (3.24)	6.9 (2.53)	36.2 (6.26)	56.9 (6.12)	6.7 (1.44)	22.8 (2.96)	70.5 (3.26)			
California	5.7 (1.70)	17.6 (2.75)	76.7 (3.28)	8.6 (3.11)	19.4 (4.16)	72.0 (4.84)	5.2 (1.55)	17.3 (2.81)	77.5 (3.29)			
Colorado	9.8 (2.43)	23.8 (3.72)	66.4 (3.80)	21.1 (6.75)	26.8 (8.66)	52.1 (7.88)	8.4 (2.03)	23.4 (3.52)	68.2 (3.66)			
Connecticut	6.1 (1.56)	23.5 (2.63)	70.4 (2.59)	‡ (†)	‡ (†)	‡ (†)	6.0 (1.52)	23.5 (2.65)	70.5 (2.58)			
Delaware	3.3 (0.29)	14.9 (0.62)	81.8 (0.69)	‡ (†)	‡ (†)	‡ (†)	3.4 (0.30)	14.9 (0.64)	81.7 (0.70)			
District of Columbia	7.2 (0.43)	42.6 (0.90)	50.2 (0.86)	‡ (†)	‡ (†)	‡ (†)	7.1 (0.48)	42.2 (0.90)	50.7 (0.90)			
Florida	3.1 (0.85)	24.1 (2.88)	72.8 (2.97)	3.2 (0.83)	32.1 (6.15)	64.6 (6.16)	3.1 (0.90)	23.6 (2.84)	73.3 (2.94)			
Georgia	6.0 (1.57)	16.3 (2.31)	77.7 (2.70)	4.7 (3.31)	15.5 (8.09)	79.8 (8.46)	6.1 (1.60)	16.3 (2.30)	77.6 (2.69)			
Hawaii	6.5 (0.72)	24.3 (1.20)	69.2 (1.09)	6.3 (2.22)	24.6 (4.09)	69.0 (4.48)	6.5 (0.74)	24.2 (1.23)	69.2 (1.14)			
Idaho	6.4 (1.62)	25.0 (2.17)	68.6 (2.59)	‡ (†)	‡ (†)	‡ (†)	6.3 (1.60)	25.1 (2.19)	68.7 (2.60)			
Illinois	5.3 (1.98)	19.1 (2.86)	75.6 (3.32)	3.4 (2.14)	25.8 (6.91)	70.8 (7.11)	5.4 (2.01)	18.8 (2.88)	75.8 (3.33)			
Indiana	2.1 (0.81)	18.4 (2.92)	79.5 (3.16)	1.1 (1.02)	26.5 (11.01)	72.4 (10.79)	2.2 (0.85)	17.9 (2.80)	79.9 (3.08)			
Iowa	2.7 (0.86)	24.1 (2.77)	73.2 (2.66)	3.3 (2.72)	23.5 (6.19)	73.2 (6.12)	2.6 (0.86)	24.2 (2.81)	73.2 (2.71)			

See notes at end of table.

**TABLE B-33.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	English language learner						Not English language learner					
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
Kansas	3.9 (1.13)	19.5 (2.63)	76.6 (2.79)	5.8 (2.18)	24.8 (4.53)	69.4 (4.52)	3.7 (1.16)	18.9 (2.82)	77.4 (3.03)			
Kentucky	7.0 (1.15)	22.1 (2.67)	70.9 (2.77)	‡ (†)	‡ (†)	‡ (†)	6.9 (1.16)	21.8 (2.65)	71.3 (2.75)			
Louisiana	6.6 (1.96)	20.1 (3.41)	73.3 (3.91)	‡ (†)	‡ (†)	‡ (†)	6.7 (1.98)	20.1 (3.41)	73.2 (3.91)			
Maine	0.7 (0.40)	9.9 (1.41)	89.4 (1.44)	‡ (†)	‡ (†)	‡ (†)	0.8 (0.41)	9.9 (1.43)	89.4 (1.46)			
Maryland	6.2 (1.49)	15.0 (1.46)	78.8 (2.15)	6.2 (3.85)	21.9 (4.92)	71.9 (6.14)	6.1 (1.50)	14.8 (1.47)	79.0 (2.15)			
Massachusetts	6.7 (2.06)	24.9 (3.67)	68.4 (3.67)	2.9 (2.11)	33.2 (6.87)	63.9 (7.24)	7.0 (2.12)	24.4 (3.75)	68.6 (3.74)			
Michigan	1.1 (0.67)	13.1 (2.96)	85.8 (3.08)	2.0 (2.05)	9.1 (7.24)	88.9 (7.21)	1.1 (0.65)	13.2 (3.01)	85.7 (3.13)			
Minnesota	3.4 (1.04)	17.9 (2.43)	78.7 (2.40)	5.5 (3.37)	34.4 (7.78)	60.1 (6.97)	3.3 (0.98)	16.8 (2.39)	79.9 (2.39)			
Mississippi	5.1 (1.30)	23.9 (3.19)	71.0 (3.15)	‡ (†)	‡ (†)	‡ (†)	5.1 (1.31)	23.9 (3.22)	71.0 (3.17)			
Missouri	6.0 (1.89)	22.7 (3.09)	71.3 (3.50)	‡ (†)	‡ (†)	‡ (†)	5.9 (1.86)	22.5 (3.04)	71.6 (3.44)			
Montana	4.0 (0.98)	11.1 (1.06)	84.9 (1.33)	‡ (†)	‡ (†)	‡ (†)	4.0 (0.98)	11.1 (1.05)	84.9 (1.34)			
Nebraska	3.1 (0.98)	23.4 (1.97)	73.5 (2.04)	‡ (†)	‡ (†)	‡ (†)	3.1 (1.00)	23.1 (1.98)	73.8 (2.06)			
Nevada	8.6 (0.70)	13.7 (1.55)	77.7 (1.57)	13.7 (1.85)	18.3 (2.78)	67.9 (3.10)	7.8 (0.76)	12.9 (1.51)	79.3 (1.54)			
New Hampshire	3.7 (0.62)	16.9 (1.68)	79.5 (1.75)	‡ (†)	‡ (†)	‡ (†)	3.7 (0.64)	16.8 (1.68)	79.6 (1.74)			
New Jersey	1.3 (0.64)	17.9 (2.80)	80.8 (2.83)	‡ (†)	‡ (†)	‡ (†)	1.3 (0.65)	18.1 (2.84)	80.6 (2.87)			
New Mexico	5.7 (0.84)	23.0 (2.39)	71.3 (2.43)	4.8 (1.21)	29.6 (4.98)	65.6 (5.11)	5.9 (0.93)	22.1 (2.33)	72.1 (2.36)			
New York	2.0 (0.86)	11.5 (2.19)	86.5 (2.32)	5.8 (3.81)	12.6 (3.97)	81.6 (5.57)	1.8 (0.78)	11.5 (2.19)	86.7 (2.29)			
North Carolina	4.2 (0.85)	24.9 (2.95)	70.9 (2.99)	3.2 (1.03)	23.6 (5.92)	73.1 (6.29)	4.3 (0.88)	25.0 (2.95)	70.8 (2.97)			
North Dakota	3.9 (0.32)	23.8 (0.73)	72.2 (0.67)	‡ (†)	‡ (†)	‡ (†)	4.0 (0.32)	23.7 (0.74)	72.3 (0.67)			
Ohio	4.9 (1.73)	21.6 (3.56)	73.5 (3.75)	2.2 (2.90)	18.4 (19.44)	79.4 (21.27)	4.9 (1.75)	21.7 (3.61)	73.3 (3.79)			
Oklahoma	4.9 (1.42)	24.9 (3.25)	70.2 (3.19)	5.2 (4.49)	18.6 (5.72)	76.3 (6.30)	4.9 (1.39)	25.2 (3.30)	69.9 (3.23)			
Oregon	5.7 (1.51)	12.5 (2.12)	81.7 (2.71)	‡ (†)	‡ (†)	‡ (†)	5.8 (1.53)	12.2 (2.06)	82.0 (2.69)			
Pennsylvania	2.5 (1.43)	9.6 (2.22)	87.9 (2.54)	3.4 (3.45)	14.4 (8.70)	82.2 (9.35)	2.5 (1.44)	9.5 (2.15)	88.0 (2.51)			
Rhode Island	5.4 (0.43)	12.9 (0.67)	81.7 (0.65)	9.0 (2.86)	31.2 (4.34)	59.8 (4.89)	5.2 (0.47)	11.9 (0.67)	82.9 (0.72)			
South Carolina	4.5 (1.42)	18.9 (2.90)	76.6 (3.23)	‡ (†)	23.2 (6.23)	76.8 (6.23)	4.7 (1.49)	18.7 (2.87)	76.6 (3.25)			
South Dakota	1.3 (0.30)	18.2 (1.65)	80.5 (1.72)	‡ (†)	‡ (†)	‡ (†)	1.3 (0.30)	18.1 (1.70)	80.6 (1.77)			
Tennessee	5.6 (1.51)	28.0 (4.15)	66.3 (3.70)	‡ (†)	‡ (†)	‡ (†)	5.7 (1.54)	28.2 (4.17)	66.2 (3.69)			
Texas	7.5 (2.99)	23.5 (2.68)	69.0 (3.64)	7.8 (3.82)	23.1 (4.94)	69.1 (6.10)	7.5 (3.10)	23.5 (2.71)	69.0 (3.68)			
Utah	7.1 (1.67)	32.7 (2.46)	60.2 (2.70)	15.1 (7.43)	42.3 (7.33)	42.6 (9.08)	6.9 (1.63)	32.4 (2.47)	60.8 (2.68)			
Vermont	4.3 (0.34)	15.4 (0.48)	80.4 (0.60)	‡ (†)	‡ (†)	‡ (†)	4.3 (0.34)	15.4 (0.51)	80.2 (0.61)			
Virginia	6.1 (1.59)	23.5 (2.24)	70.4 (2.64)	9.3 (3.80)	24.7 (5.23)	66.0 (5.12)	5.9 (1.59)	23.4 (2.28)	70.6 (2.71)			
Washington	5.9 (1.70)	16.3 (2.57)	77.9 (3.14)	5.4 (3.04)	21.6 (7.84)	72.9 (8.08)	5.9 (1.71)	15.8 (2.46)	78.3 (3.04)			
West Virginia	6.4 (1.78)	22.4 (2.51)	71.1 (2.84)	‡ (†)	‡ (†)	‡ (†)	6.4 (1.78)	22.4 (2.52)	71.3 (2.85)			
Wisconsin	2.4 (0.70)	15.0 (2.78)	82.5 (2.81)	1.5 (1.53)	17.2 (6.04)	81.3 (5.98)	2.5 (0.71)	15.0 (2.78)	82.6 (2.82)			
Wyoming	4.9 (0.37)	9.0 (0.50)	86.2 (0.57)	‡ (†)	‡ (†)	‡ (†)	4.9 (0.39)	9.1 (0.51)	86.1 (0.59)			
Department of Defense Dependents Schools	0.6 (0.16)	7.9 (0.51)	91.4 (0.53)	# (†)	9.7 (3.42)	90.3 (3.42)	0.7 (0.17)	7.8 (0.57)	91.5 (0.60)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-34.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, English language learner status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			English language learner Years of experience of mathematics teacher			Not English language learner Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	7.1 (1.14)	22.2 (1.73)	70.7 (1.87)	4.8 (0.40)	19.6 (0.56)	75.6 (0.56)			
Large city	8.2 (2.03)	20.8 (1.18)	71.0 (1.92)	11.1 (2.82)	17.5 (1.96)	71.4 (3.21)	7.8 (2.06)	21.2 (1.19)	70.9 (1.95)			
Albuquerque	10.1 (1.91)	30.9 (2.05)	59.0 (2.11)	6.4 (2.21)	35.0 (5.91)	58.6 (5.81)	10.6 (2.11)	30.3 (2.04)	59.1 (2.33)			
Atlanta	7.7 (0.55)	17.5 (0.60)	74.8 (0.81)	‡ (†)	‡ (†)	‡ (†)	7.8 (0.56)	17.8 (0.61)	74.5 (0.84)			
Austin	6.1 (0.60)	23.9 (1.07)	70.0 (1.13)	7.8 (2.11)	23.5 (3.45)	68.7 (3.72)	5.8 (0.71)	24.0 (1.16)	70.3 (1.26)			
Baltimore City	7.8 (2.77)	24.1 (4.93)	68.1 (5.52)	‡ (†)	‡ (†)	‡ (†)	7.9 (2.83)	22.3 (4.81)	69.9 (5.41)			
Boston	0.8 (0.08)	22.6 (1.22)	76.6 (1.21)	0.3 (0.31)	31.7 (4.03)	67.9 (4.01)	0.9 (0.13)	20.0 (1.42)	79.0 (1.43)			
Charlotte	9.2 (1.98)	27.2 (3.00)	63.6 (3.20)	‡ (†)	‡ (†)	‡ (†)	8.1 (1.86)	27.5 (3.04)	64.4 (3.21)			
Chicago	2.6 (1.52)	21.8 (3.84)	75.6 (4.07)	2.1 (1.90)	21.0 (5.33)	76.9 (5.36)	2.6 (1.56)	21.9 (4.04)	75.5 (4.29)			
Cleveland	1.4 (0.26)	5.0 (0.39)	93.5 (0.46)	‡ (†)	‡ (†)	‡ (†)	1.6 (0.28)	5.4 (0.40)	93.1 (0.48)			
Dallas	5.8 (0.79)	25.3 (1.83)	68.9 (1.85)	8.6 (1.75)	30.0 (3.40)	61.4 (3.55)	4.4 (0.92)	22.9 (1.81)	72.7 (1.90)			
Detroit	# (†)	2.3 (0.25)	97.7 (0.25)	# (†)	# (†)	100.0 <sup>1</sup> (†)	# (†)	2.8 (0.30)	97.2 (0.30)			
District of Columbia (DCPS)	2.2 (0.39)	47.6 (1.45)	50.2 (1.40)	‡ (†)	‡ (†)	‡ (†)	2.0 (0.40)	48.4 (1.51)	49.7 (1.46)			
Fresno	7.1 (0.71)	8.1 (0.53)	84.8 (0.84)	12.4 (3.37)	6.2 (2.50)	81.4 (4.33)	6.1 (0.72)	8.5 (0.66)	85.4 (0.84)			
Hillsborough County (FL)	11.0 (1.51)	18.1 (2.06)	70.9 (2.35)	21.1 (5.13)	19.1 (5.17)	59.8 (6.97)	9.9 (1.43)	18.0 (2.04)	72.1 (2.34)			
Houston	4.8 (0.74)	33.9 (2.68)	61.2 (2.62)	3.6 (1.32)	32.1 (4.35)	64.3 (4.33)	5.1 (0.82)	34.3 (2.64)	60.6 (2.58)			
Jefferson County (KY)	16.1 (1.03)	19.9 (1.53)	64.0 (1.96)	‡ (†)	‡ (†)	‡ (†)	15.1 (1.03)	19.6 (1.58)	65.3 (1.99)			
Los Angeles	4.2 (1.19)	10.1 (2.74)	85.7 (2.92)	9.4 (3.10)	14.5 (4.30)	76.0 (5.38)	3.5 (1.11)	9.5 (2.75)	87.0 (2.85)			
Miami-Dade	0.6 (0.44)	13.9 (3.64)	85.4 (3.76)	# (†)	11.7 (5.66)	88.3 (5.66)	0.7 (0.51)	14.3 (3.51)	85.0 (3.66)			
New York City	4.2 (2.27)	19.3 (3.25)	76.5 (4.00)	4.8 (4.30)	15.5 (4.55)	79.7 (6.60)	4.1 (2.29)	19.8 (3.36)	76.1 (4.10)			
Philadelphia	1.6 (1.37)	6.8 (3.05)	91.6 (3.36)	‡ (†)	‡ (†)	‡ (†)	1.7 (1.46)	6.7 (3.17)	91.7 (3.51)			
San Diego	3.3 (0.61)	8.3 (2.43)	88.4 (2.46)	3.0 (1.54)	11.0 (5.88)	86.0 (5.95)	3.4 (0.60)	7.8 (1.90)	88.8 (1.96)			
Duval County (FL)	3.2 (0.68)	22.9 (2.49)	73.9 (2.12)	‡ (†)	‡ (†)	‡ (†)	2.6 (0.66)	22.5 (2.56)	74.9 (2.20)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-35.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			National School Lunch Program, eligible Years of experience of mathematics teacher			National School Lunch Program, not eligible Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	6.1 (0.63)	21.4 (0.76)	72.5 (0.87)	3.8 (0.34)	17.8 (0.62)	78.4 (0.61)			
<b>Location</b>												
City	7.7 (1.21)	20.2 (1.06)	72.1 (1.35)	9.0 (1.53)	20.4 (1.16)	70.5 (1.62)	5.4 (1.04)	19.4 (1.29)	75.2 (1.51)			
Suburban	4.0 (0.61)	19.1 (0.94)	76.9 (1.08)	4.8 (1.22)	21.7 (1.36)	73.5 (1.59)	3.3 (0.44)	16.8 (0.92)	79.9 (1.05)			
Town	3.7 (0.52)	19.8 (1.91)	76.5 (1.83)	3.6 (0.49)	21.9 (2.68)	74.5 (2.58)	3.8 (0.71)	17.1 (1.45)	79.1 (1.47)			
Rural	3.8 (0.54)	20.4 (1.15)	75.7 (1.21)	4.5 (0.66)	22.3 (1.74)	73.2 (1.74)	3.2 (0.60)	18.8 (1.15)	78.0 (1.22)			
<b>Minority enrollment</b>												
75 percent or more	8.6 (1.47)	22.4 (1.51)	69.0 (1.88)	8.9 (1.47)	22.6 (1.54)	68.6 (1.97)	7.8 (2.28)	20.1 (2.09)	72.1 (2.78)			
Less than 75 percent	3.7 (0.24)	18.8 (0.63)	77.5 (0.67)	4.2 (0.29)	20.6 (0.82)	75.2 (0.84)	3.4 (0.28)	17.5 (0.68)	79.1 (0.72)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-36.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of mathematics teacher			National School Lunch Program, eligible Years of experience of mathematics teacher			National School Lunch Program, not eligible Years of experience of mathematics teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	6.1 (0.63)	21.4 (0.76)	72.5 (0.87)	3.8 (0.34)	17.8 (0.62)	78.4 (0.61)			
Alabama	1.0 (0.48)	25.5 (3.65)	73.5 (3.64)	0.8 (0.46)	28.6 (4.20)	70.6 (4.25)	1.2 (0.63)	21.9 (3.78)	76.9 (3.78)			
Alaska	0.6 (0.20)	10.6 (1.20)	88.8 (1.20)	0.4 (0.34)	14.6 (2.11)	85.0 (2.13)	0.8 (0.28)	6.8 (0.96)	92.4 (0.98)			
Arizona	7.3 (1.69)	21.2 (3.22)	71.6 (3.35)	8.7 (2.37)	22.7 (4.43)	68.6 (4.54)	5.4 (1.69)	17.6 (3.10)	77.0 (3.01)			
Arkansas	6.7 (1.44)	23.8 (2.96)	69.5 (3.24)	7.9 (1.89)	24.6 (2.91)	67.5 (3.26)	4.9 (1.53)	22.7 (3.57)	72.4 (3.89)			
California	5.7 (1.70)	17.6 (2.75)	76.7 (3.28)	8.3 (2.66)	18.1 (3.09)	73.6 (4.04)	1.5 (0.68)	15.9 (3.76)	82.7 (4.08)			
Colorado	9.8 (2.43)	23.8 (3.72)	66.4 (3.80)	14.0 (3.89)	26.0 (4.92)	59.9 (4.74)	6.4 (1.74)	21.5 (3.75)	72.1 (3.95)			
Connecticut	6.1 (1.56)	23.5 (2.63)	70.4 (2.59)	6.8 (2.11)	29.4 (3.85)	63.9 (3.88)	5.8 (1.63)	20.3 (2.79)	73.9 (2.85)			
Delaware	3.3 (0.29)	14.9 (0.62)	81.8 (0.69)	3.7 (0.59)	14.7 (1.05)	81.6 (1.22)	3.0 (0.35)	15.2 (0.88)	81.8 (0.97)			
District of Columbia	7.2 (0.43)	42.6 (0.90)	50.2 (0.86)	6.6 (0.48)	36.2 (1.35)	57.2 (1.37)	8.8 (1.33)	58.5 (1.96)	32.8 (1.80)			
Florida	3.1 (0.85)	24.1 (2.88)	72.8 (2.97)	4.1 (1.30)	27.7 (3.49)	68.2 (3.61)	1.4 (0.37)	18.1 (2.70)	80.5 (2.76)			
Georgia	6.0 (1.57)	16.3 (2.31)	77.7 (2.70)	6.1 (1.72)	15.8 (2.45)	78.1 (2.98)	5.3 (2.12)	19.3 (4.43)	75.4 (4.88)			
Hawaii	6.5 (0.72)	24.3 (1.20)	69.2 (1.09)	6.4 (1.14)	25.4 (1.57)	68.2 (1.45)	6.6 (0.83)	23.1 (1.38)	70.3 (1.45)			
Idaho	6.4 (1.62)	25.0 (2.17)	68.6 (2.59)	7.4 (2.33)	22.2 (2.65)	70.4 (3.35)	5.5 (1.50)	27.2 (2.20)	67.3 (2.62)			
Illinois	5.3 (1.98)	19.1 (2.86)	75.6 (3.32)	4.6 (1.48)	20.7 (3.17)	74.7 (3.35)	6.0 (3.08)	17.7 (3.12)	76.3 (4.18)			
Indiana	2.1 (0.81)	18.4 (2.92)	79.5 (3.16)	2.0 (1.04)	20.6 (3.41)	77.4 (3.59)	2.2 (0.95)	16.6 (3.11)	81.2 (3.52)			
Iowa	2.7 (0.86)	24.1 (2.77)	73.2 (2.66)	2.7 (0.98)	24.5 (3.40)	72.8 (3.23)	2.7 (0.98)	24.0 (3.05)	73.3 (2.99)			

See notes at end of table.

**TABLE B-36.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Years of experience of mathematics teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5
Kansas	3.9 (1.13)	19.5 (2.63)	76.6 (2.79)	5.1 (1.41)	20.7 (2.98)	74.2 (2.98)	2.9 (1.09)	18.6 (3.21)	78.6 (3.43)
Kentucky	7.0 (1.15)	22.1 (2.67)	70.9 (2.77)	7.5 (1.21)	23.0 (3.00)	69.5 (3.26)	6.5 (1.38)	20.9 (2.95)	72.6 (2.89)
Louisiana	6.6 (1.96)	20.1 (3.41)	73.3 (3.91)	8.0 (2.42)	22.2 (3.98)	69.8 (4.48)	4.1 (1.56)	15.8 (3.33)	80.2 (3.79)
Maine	0.7 (0.40)	9.9 (1.41)	89.4 (1.44)	0.7 (0.36)	11.5 (1.92)	87.8 (1.93)	0.8 (0.48)	8.7 (1.36)	90.5 (1.41)
Maryland	6.2 (1.49)	15.0 (1.46)	78.8 (2.15)	7.9 (1.87)	17.7 (2.35)	74.4 (3.20)	5.1 (1.46)	13.4 (1.41)	81.6 (2.08)
Massachusetts	6.7 (2.06)	24.9 (3.67)	68.4 (3.67)	4.9 (1.84)	30.7 (5.10)	64.4 (4.98)	8.1 (2.50)	20.3 (3.67)	71.5 (3.87)
Michigan	1.1 (0.67)	13.1 (2.96)	85.8 (3.08)	2.0 (1.40)	18.6 (4.99)	79.4 (5.26)	0.4 (0.27)	8.7 (2.28)	90.9 (2.30)
Minnesota	3.4 (1.04)	17.9 (2.43)	78.7 (2.40)	4.4 (1.44)	22.3 (3.20)	73.3 (3.14)	2.9 (1.02)	15.7 (2.49)	81.4 (2.37)
Mississippi	5.1 (1.30)	23.9 (3.19)	71.0 (3.15)	5.1 (1.56)	24.6 (3.78)	70.3 (3.82)	5.4 (1.94)	21.3 (3.51)	73.4 (3.66)
Missouri	6.0 (1.89)	22.7 (3.09)	71.3 (3.50)	6.7 (2.35)	27.4 (4.22)	65.9 (4.60)	5.4 (1.89)	18.9 (2.98)	75.7 (3.29)
Montana	4.0 (0.98)	11.1 (1.06)	84.9 (1.33)	3.9 (0.89)	9.4 (1.38)	86.7 (1.42)	4.1 (1.19)	12.1 (1.44)	83.8 (1.81)
Nebraska	3.1 (0.98)	23.4 (1.97)	73.5 (2.04)	4.0 (0.71)	28.0 (2.33)	68.1 (2.33)	2.5 (1.46)	20.5 (2.30)	77.0 (2.40)
Nevada	8.6 (0.70)	13.7 (1.55)	77.7 (1.57)	11.8 (0.91)	17.7 (1.96)	70.5 (2.01)	5.1 (0.93)	9.2 (1.50)	85.7 (1.60)
New Hampshire	3.7 (0.62)	16.9 (1.68)	79.5 (1.75)	1.9 (0.54)	18.7 (2.22)	79.4 (2.23)	4.4 (0.84)	14.5 (1.60)	81.1 (1.73)
New Jersey	1.3 (0.64)	17.9 (2.80)	80.8 (2.83)	1.8 (0.84)	14.7 (3.08)	83.5 (3.33)	1.0 (0.67)	19.5 (3.38)	79.5 (3.36)
New Mexico	5.7 (0.84)	23.0 (2.39)	71.3 (2.43)	4.8 (0.95)	23.5 (2.85)	71.7 (2.87)	8.3 (1.73)	22.5 (2.47)	69.2 (2.97)
New York	2.0 (0.86)	11.5 (2.19)	86.5 (2.32)	3.4 (1.44)	13.9 (2.85)	82.8 (3.15)	0.3 (0.16)	7.4 (2.02)	92.3 (2.02)
North Carolina	4.2 (0.85)	24.9 (2.95)	70.9 (2.99)	5.4 (1.07)	25.7 (3.68)	68.8 (3.64)	2.6 (0.79)	24.1 (3.23)	73.3 (3.41)
North Dakota	3.9 (0.32)	23.8 (0.73)	72.2 (0.67)	3.1 (0.57)	22.2 (1.36)	74.7 (1.37)	4.3 (0.48)	24.6 (0.94)	71.1 (0.85)
Ohio	4.9 (1.73)	21.6 (3.56)	73.5 (3.75)	5.1 (2.09)	25.0 (4.80)	69.9 (4.71)	4.6 (1.85)	18.8 (3.79)	76.5 (4.12)
Oklahoma	4.9 (1.42)	24.9 (3.25)	70.2 (3.19)	4.1 (1.42)	26.6 (3.78)	69.3 (3.57)	6.0 (2.00)	22.7 (3.27)	71.3 (3.29)
Oregon	5.7 (1.51)	12.5 (2.12)	81.7 (2.71)	5.3 (1.45)	14.0 (2.83)	80.8 (3.36)	6.4 (1.96)	10.6 (2.17)	83.0 (2.93)
Pennsylvania	2.5 (1.43)	9.6 (2.22)	87.9 (2.54)	2.4 (1.47)	12.9 (3.72)	84.7 (3.76)	2.6 (1.58)	6.7 (1.70)	90.7 (2.30)
Rhode Island	5.4 (0.43)	12.9 (0.67)	81.7 (0.65)	8.4 (0.83)	15.6 (1.06)	76.1 (1.26)	3.1 (0.49)	10.8 (0.85)	86.1 (0.96)
South Carolina	4.5 (1.42)	18.9 (2.90)	76.6 (3.23)	5.6 (2.03)	20.1 (3.37)	74.3 (3.76)	3.2 (1.23)	17.3 (2.89)	79.5 (3.26)
South Dakota	1.3 (0.30)	18.2 (1.65)	80.5 (1.72)	2.1 (0.69)	22.9 (1.65)	75.1 (1.87)	0.9 (0.28)	15.9 (2.27)	83.2 (2.26)
Tennessee	5.6 (1.51)	28.0 (4.15)	66.3 (3.70)	5.1 (1.85)	30.7 (5.05)	64.1 (4.54)	6.2 (1.75)	24.9 (4.69)	68.9 (4.13)
Texas	7.5 (2.99)	23.5 (2.68)	69.0 (3.64)	8.7 (3.92)	23.2 (3.30)	68.1 (4.62)	6.2 (2.40)	23.4 (2.85)	70.5 (3.47)
Utah	7.1 (1.67)	32.7 (2.46)	60.2 (2.70)	8.7 (2.25)	33.2 (3.27)	58.1 (3.72)	6.3 (1.69)	32.3 (2.70)	61.4 (2.81)
Vermont	4.3 (0.34)	15.4 (0.48)	80.4 (0.60)	5.0 (0.72)	14.5 (0.99)	80.5 (1.30)	3.8 (0.62)	16.0 (0.72)	80.3 (0.96)
Virginia	6.1 (1.59)	23.5 (2.24)	70.4 (2.64)	9.1 (2.87)	25.3 (3.11)	65.7 (3.88)	4.4 (1.39)	22.2 (2.20)	73.4 (2.60)
Washington	5.9 (1.70)	16.3 (2.57)	77.9 (3.14)	6.4 (1.96)	17.7 (3.17)	75.9 (3.79)	5.4 (1.94)	14.9 (3.32)	79.7 (3.51)
West Virginia	6.4 (1.78)	22.4 (2.51)	71.1 (2.84)	6.0 (1.93)	24.2 (2.93)	69.9 (3.47)	7.2 (2.46)	19.6 (2.86)	73.2 (2.78)
Wisconsin	2.4 (0.70)	15.0 (2.78)	82.5 (2.81)	2.7 (0.95)	16.0 (3.52)	81.3 (3.42)	2.2 (0.80)	12.7 (3.22)	85.1 (3.31)
Wyoming	4.9 (0.37)	9.0 (0.50)	86.2 (0.57)	7.1 (0.88)	10.4 (1.13)	82.6 (1.48)	3.7 (0.47)	8.1 (0.68)	88.2 (0.87)
Department of Defense Dependents Schools	0.6 (0.16)	7.9 (0.51)	91.4 (0.53)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1–2 years," "3–5 years," "6–10 years," "11–20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1–5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-37.** Percentage of 8th-grade public school students, by years of experience of their mathematics teacher, National School Lunch Program status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)								
	Years of experience of mathematics teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible		
	Years of experience of mathematics teacher			Years of experience of mathematics teacher			Years of experience of mathematics teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	5.0 (0.42)	19.7 (0.58)	75.3 (0.59)	6.1 (0.63)	21.4 (0.76)	72.5 (0.87)	3.8 (0.34)	17.8 (0.62)	78.4 (0.61)
Large city	8.2 (2.03)	20.8 (1.18)	71.0 (1.92)	9.6 (2.40)	20.7 (1.30)	69.8 (2.16)	4.8 (1.39)	20.3 (1.58)	75.0 (1.99)
Albuquerque	10.1 (1.91)	30.9 (2.05)	59.0 (2.11)	7.1 (1.66)	34.0 (2.71)	58.9 (2.48)	15.9 (2.94)	25.4 (3.57)	58.8 (3.63)
Atlanta	7.7 (0.55)	17.5 (0.60)	74.8 (0.81)	5.7 (0.55)	18.2 (0.72)	76.1 (0.93)	17.4 (2.34)	14.1 (1.79)	68.5 (2.70)
Austin	6.1 (0.60)	23.9 (1.07)	70.0 (1.13)	8.0 (0.96)	27.1 (1.64)	64.9 (1.66)	3.7 (0.91)	19.7 (1.63)	76.6 (1.67)
Baltimore City	7.8 (2.77)	24.1 (4.93)	68.1 (5.52)	8.5 (2.99)	24.5 (5.17)	67.0 (5.82)	4.9 (2.55)	22.7 (5.70)	72.3 (6.27)
Boston	0.8 (0.08)	22.6 (1.22)	76.6 (1.21)	0.8 (0.08)	22.6 (1.22)	76.6 (1.21)	‡ (†)	‡ (†)	‡ (†)
Charlotte	9.2 (1.98)	27.2 (3.00)	63.6 (3.20)	14.9 (3.34)	26.9 (4.32)	58.2 (4.47)	1.3 (0.41)	27.1 (2.44)	71.7 (2.50)
Chicago	2.6 (1.52)	21.8 (3.84)	75.6 (4.07)	2.9 (1.74)	22.9 (4.13)	74.2 (4.38)	0.6 (0.55)	16.0 (6.78)	83.4 (6.84)
Cleveland	1.4 (0.26)	5.0 (0.39)	93.5 (0.46)	1.4 (0.26)	5.0 (0.39)	93.5 (0.46)	‡ (†)	‡ (†)	‡ (†)
Dallas	5.8 (0.79)	25.3 (1.83)	68.9 (1.85)	6.3 (0.89)	25.1 (1.99)	68.6 (2.00)	1.5 (1.49)	26.9 (5.49)	71.6 (5.47)
Detroit	# (†)	2.3 (0.25)	97.7 (0.25)	# (†)	2.3 (0.58)	97.7 (0.58)	# (†)	2.5 (1.00)	97.5 (1.00)
District of Columbia (DCPS)	2.2 (0.39)	47.6 (1.45)	50.2 (1.40)	1.8 (0.42)	39.3 (2.07)	58.9 (2.05)	3.2 (1.04)	67.4 (2.63)	29.3 (2.51)
Fresno	7.1 (0.71)	8.1 (0.53)	84.8 (0.84)	9.1 (0.90)	3.8 (0.79)	87.1 (1.16)	# (†)	23.7 (1.48)	76.3 (1.48)
Hillsborough County (FL)	11.0 (1.51)	18.1 (2.06)	70.9 (2.35)	13.0 (2.33)	18.9 (2.78)	68.0 (3.09)	8.1 (2.12)	16.8 (2.48)	75.1 (3.27)
Houston	4.8 (0.74)	33.9 (2.68)	61.2 (2.62)	4.5 (0.93)	34.6 (3.02)	60.9 (3.01)	5.9 (1.09)	31.9 (2.96)	62.3 (2.87)
Jefferson County (KY)	16.1 (1.03)	19.9 (1.53)	64.0 (1.96)	22.2 (1.80)	23.6 (2.30)	54.2 (2.42)	8.0 (1.39)	15.2 (1.38)	76.8 (1.93)
Los Angeles	4.2 (1.19)	10.1 (2.74)	85.7 (2.92)	4.4 (1.30)	10.6 (2.77)	85.0 (3.05)	2.4 (1.44)	7.4 (5.88)	90.2 (5.78)
Miami-Dade	0.6 (0.44)	13.9 (3.64)	85.4 (3.76)	0.9 (0.62)	16.7 (4.72)	82.4 (4.88)	# (†)	6.8 (1.82)	93.2 (1.82)
New York City	4.2 (2.27)	19.3 (3.25)	76.5 (4.00)	5.2 (2.83)	20.2 (3.73)	74.6 (4.65)	0.9 (0.62)	16.0 (3.93)	83.1 (4.07)
Philadelphia	1.6 (1.37)	6.8 (3.05)	91.6 (3.36)	1.9 (1.64)	6.8 (2.90)	91.3 (3.36)	0.9 (0.83)	6.2 (3.26)	92.9 (3.38)
San Diego	3.3 (0.61)	8.3 (2.43)	88.4 (2.46)	3.0 (0.75)	11.0 (3.63)	86.0 (3.65)	3.9 (1.12)	3.3 (0.94)	92.8 (1.55)
Duval County (FL)	3.2 (0.68)	22.9 (2.49)	73.9 (2.12)	4.5 (1.22)	27.5 (3.83)	68.0 (3.46)	2.2 (0.62)	19.5 (2.06)	78.3 (1.80)

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-38.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and selected school characteristics: 2015

(Standard errors in parentheses)								
School characteristic	Years of experience of reading teacher			White				
	Years of experience of reading teacher			Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	3.5 (0.22)	17.2 (0.66)	79.3 (0.66)		
Location								
City	5.9 (0.91)	22.1 (1.38)	72.0 (1.61)	4.5 (0.59)	18.8 (1.55)	76.7 (1.69)		
Suburban	3.5 (0.34)	16.8 (0.95)	79.7 (0.94)	2.9 (0.38)	16.0 (0.92)	81.0 (0.91)		
Town	3.9 (0.65)	19.8 (2.08)	76.3 (2.09)	3.5 (0.70)	16.5 (1.46)	80.0 (1.55)		
Rural	4.4 (0.70)	19.6 (1.15)	76.0 (1.29)	3.8 (0.51)	18.3 (1.01)	77.9 (1.19)		
Minority enrollment								
75 percent or more	6.2 (0.97)	24.1 (1.58)	69.7 (1.76)	6.8 (1.69)	19.5 (2.41)	73.6 (2.62)		
Less than 75 percent	3.8 (0.30)	17.5 (0.69)	78.7 (0.69)	3.4 (0.24)	17.1 (0.67)	79.5 (0.67)		
School characteristic	Black			Hispanic				
	Years of experience of reading teacher			Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	5.7 (0.47)	22.5 (1.18)	71.8 (1.16)	5.9 (0.86)	21.6 (1.48)	72.5 (1.60)		
Location								
City	5.9 (0.66)	26.0 (2.06)	68.1 (2.06)	8.0 (2.03)	22.9 (1.63)	69.1 (2.43)		
Suburban	4.8 (0.79)	18.7 (1.29)	76.5 (1.38)	4.3 (0.52)	16.9 (2.50)	78.9 (2.49)		
Town	8.2 (2.03)	24.2 (4.19)	67.6 (4.00)	3.1 (0.86)	30.5 (8.21)	66.4 (8.19)		
Rural	6.1 (1.40)	20.8 (3.06)	73.1 (2.75)	6.5 (2.84)	27.0 (5.61)	66.4 (5.21)		
Minority enrollment								
75 percent or more	6.2 (0.64)	26.0 (1.91)	67.8 (1.96)	6.7 (1.52)	24.2 (2.22)	69.1 (2.52)		
Less than 75 percent	5.2 (0.66)	18.8 (1.12)	76.0 (1.27)	4.9 (0.74)	18.3 (1.41)	76.7 (1.49)		
School characteristic	Asian			Pacific Islander				
	Years of experience of reading teacher			Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	2.3 (0.37)	19.4 (2.34)	78.3 (2.30)	6.4 (1.60)	17.4 (1.93)	76.1 (2.53)		
Location								
City	2.8 (0.73)	20.5 (4.85)	76.7 (4.74)	5.3 (2.49)	21.0 (4.32)	73.7 (5.14)		
Suburban	2.0 (0.36)	19.0 (2.17)	79.0 (2.19)	7.8 (3.03)	17.5 (2.92)	74.7 (3.64)		
Town	2.1 (1.07)	17.9 (3.17)	79.9 (3.15)	2.5 (0.87)	10.8 (2.83)	86.8 (2.92)		
Rural	2.2 (0.94)	16.5 (3.64)	81.3 (3.90)	10.8 (5.06)	17.8 (6.32)	71.4 (8.26)		
Minority enrollment								
75 percent or more	2.5 (0.84)	22.8 (5.41)	74.7 (5.44)	6.0 (1.31)	22.3 (3.16)	71.7 (3.66)		
Less than 75 percent	2.2 (0.33)	17.5 (1.46)	80.3 (1.45)	6.8 (2.80)	13.2 (2.75)	80.0 (3.89)		
School characteristic	American Indian/Alaska Native			Two or more races				
	Years of experience of reading teacher			Years of experience of reading teacher				
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5		
<b>Nation (public)</b>	2.6 (0.51)	20.9 (2.20)	76.5 (2.22)	4.6 (0.64)	18.8 (1.60)	76.6 (1.52)		
Location								
City	2.9 (1.02)	25.1 (5.08)	72.0 (5.27)	6.0 (1.34)	21.0 (3.72)	73.0 (3.68)		
Suburban	1.8 (0.83)	21.3 (4.15)	76.9 (4.18)	3.8 (0.82)	17.6 (2.17)	78.5 (2.21)		
Town	2.3 (1.02)	15.2 (2.58)	82.5 (3.00)	3.8 (1.51)	20.3 (3.87)	75.9 (3.82)		
Rural	3.1 (0.89)	23.5 (4.31)	73.4 (4.33)	5.0 (1.57)	17.2 (2.80)	77.8 (3.15)		
Minority enrollment								
75 percent or more	3.6 (1.06)	19.6 (2.92)	76.7 (3.13)	5.4 (1.98)	19.0 (4.43)	75.6 (4.62)		
Less than 75 percent	2.1 (0.59)	21.4 (2.88)	76.5 (2.92)	4.5 (0.69)	18.7 (1.61)	76.7 (1.48)		

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-39.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015

(Standard errors in parentheses)									
State	Years of experience of reading teacher						White		
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>4.4 (0.29)</b>	<b>19.2 (0.69)</b>	<b>76.4 (0.69)</b>	<b>3.5 (0.22)</b>	<b>17.2 (0.66)</b>	<b>79.3 (0.66)</b>			
Alabama	5.5 (2.06)	16.8 (2.57)	77.7 (3.34)	6.0 (2.70)	13.2 (2.52)	80.8 (3.70)			
Alaska	5.0 (0.84)	19.7 (1.58)	75.4 (1.74)	5.6 (0.92)	14.0 (1.46)	80.4 (1.66)			
Arizona	9.6 (2.37)	20.4 (2.87)	70.0 (3.37)	9.1 (2.71)	19.6 (3.04)	71.3 (3.91)			
Arkansas	7.2 (1.57)	20.6 (2.43)	72.2 (3.23)	6.3 (1.72)	20.6 (2.45)	73.1 (3.23)			
California	2.6 (0.85)	16.6 (2.66)	80.8 (2.81)	0.7 (0.60)	11.2 (3.58)	88.1 (3.59)			
Colorado	9.0 (2.22)	21.0 (3.13)	70.0 (3.35)	7.1 (2.09)	21.0 (3.83)	71.9 (4.11)			
Connecticut	5.0 (1.49)	20.9 (2.94)	74.1 (3.31)	3.9 (1.71)	17.8 (3.05)	78.2 (3.49)			
Delaware	5.6 (0.40)	22.1 (0.73)	72.4 (0.82)	6.2 (0.71)	20.6 (1.02)	73.2 (1.23)			
District of Columbia	4.4 (0.47)	34.2 (0.90)	61.4 (0.93)	‡ (†)	‡ (†)	‡ (†)			
Florida	6.2 (1.78)	21.1 (2.47)	72.7 (3.14)	5.3 (1.88)	21.4 (3.27)	73.3 (3.90)			
Georgia	3.8 (1.10)	15.5 (2.06)	80.7 (2.28)	2.3 (0.82)	13.6 (2.74)	84.1 (2.85)			
Hawaii	7.5 (0.79)	21.4 (1.08)	71.1 (1.12)	4.6 (1.23)	19.7 (2.78)	75.7 (3.04)			
Idaho	4.0 (0.74)	21.4 (1.88)	74.6 (1.78)	4.0 (0.90)	19.2 (1.84)	76.8 (1.70)			
Illinois	3.8 (1.64)	12.7 (1.82)	83.5 (2.37)	4.7 (2.41)	8.9 (2.42)	86.4 (3.40)			
Indiana	6.6 (1.78)	21.2 (3.26)	72.2 (3.58)	6.5 (2.02)	20.8 (3.33)	72.6 (3.87)			
Iowa	5.6 (1.58)	17.5 (2.37)	76.9 (2.52)	6.5 (1.92)	17.3 (2.42)	76.3 (2.65)			
Kansas	4.1 (1.02)	27.7 (3.18)	68.2 (3.32)	3.0 (0.70)	27.3 (3.85)	69.7 (3.88)			
Kentucky	6.4 (1.28)	19.5 (2.52)	74.0 (2.79)	6.0 (1.37)	19.8 (2.70)	74.2 (2.98)			
Louisiana	11.0 (3.11)	16.4 (2.88)	72.6 (3.64)	9.7 (3.36)	12.1 (2.75)	78.3 (3.93)			
Maine	3.4 (0.75)	13.0 (1.52)	83.5 (1.72)	3.6 (0.79)	12.6 (1.46)	83.8 (1.68)			
Maryland	5.4 (1.22)	11.4 (1.53)	83.3 (1.76)	3.3 (1.04)	7.6 (1.82)	89.1 (2.08)			
Massachusetts	3.2 (1.28)	21.9 (2.71)	75.0 (3.03)	3.1 (1.44)	21.4 (2.96)	75.5 (3.40)			
Michigan	0.1 (0.07)	18.2 (3.60)	81.7 (3.59)	0.1 (0.08)	17.5 (3.71)	82.4 (3.70)			
Minnesota	4.1 (1.14)	18.8 (2.72)	77.1 (2.81)	2.6 (0.82)	16.5 (2.83)	80.9 (2.85)			
Mississippi	10.9 (2.37)	24.2 (3.30)	64.9 (3.49)	8.8 (2.38)	20.6 (3.24)	70.5 (3.91)			
Missouri	6.6 (1.74)	17.8 (2.87)	75.6 (3.08)	5.4 (1.51)	17.0 (3.02)	77.6 (3.20)			
Montana	4.7 (0.72)	15.9 (1.30)	79.4 (1.38)	4.4 (0.66)	16.1 (1.43)	79.5 (1.49)			
Nebraska	3.1 (0.72)	17.9 (2.05)	79.0 (2.17)	2.3 (0.89)	16.9 (2.41)	80.8 (2.62)			
Nevada	6.7 (1.02)	20.0 (1.19)	73.3 (1.35)	3.7 (1.17)	13.0 (1.57)	83.3 (1.69)			
New Hampshire	1.8 (0.42)	9.0 (1.45)	89.3 (1.51)	1.9 (0.47)	9.3 (1.60)	88.8 (1.68)			
New Jersey	1.1 (0.46)	18.1 (3.01)	80.8 (3.12)	1.2 (0.64)	19.5 (3.96)	79.3 (4.08)			
New Mexico	5.1 (1.24)	18.3 (1.48)	76.6 (1.94)	2.7 (1.36)	19.9 (2.50)	77.4 (2.76)			
New York	0.7 (0.50)	16.8 (3.16)	82.5 (3.16)	0.1 (0.12)	14.0 (4.09)	85.9 (4.11)			
North Carolina	3.9 (1.36)	25.0 (3.23)	71.0 (3.40)	1.7 (0.66)	21.9 (3.42)	76.4 (3.35)			
North Dakota	8.3 (0.44)	24.8 (0.74)	66.9 (0.83)	8.4 (0.52)	25.6 (0.77)	66.0 (0.91)			
Ohio	0.8 (0.38)	13.5 (2.01)	85.7 (2.02)	0.8 (0.46)	13.3 (2.21)	85.9 (2.25)			
Oklahoma	1.2 (0.73)	19.4 (3.05)	79.4 (3.09)	0.9 (0.59)	18.5 (3.14)	80.7 (3.17)			
Oregon	1.8 (0.83)	19.3 (2.95)	78.9 (2.86)	1.9 (0.93)	17.1 (3.00)	80.9 (2.85)			
Pennsylvania	2.5 (1.43)	17.2 (2.84)	80.3 (2.90)	2.5 (1.79)	13.1 (2.81)	84.5 (2.85)			
Rhode Island	0.9 (0.20)	15.7 (0.63)	83.4 (0.69)	1.0 (0.27)	14.0 (0.84)	85.0 (0.92)			
South Carolina	4.9 (1.36)	17.8 (2.41)	77.3 (2.52)	3.2 (1.05)	17.3 (2.90)	79.5 (2.98)			
South Dakota	4.0 (0.67)	21.2 (1.46)	74.8 (1.52)	3.7 (0.66)	20.9 (1.63)	75.3 (1.73)			
Tennessee	7.2 (1.95)	15.2 (2.62)	77.6 (3.24)	6.1 (1.81)	14.1 (2.71)	79.8 (3.29)			
Texas	5.9 (2.33)	25.3 (3.38)	68.8 (3.78)	4.1 (1.70)	22.1 (3.44)	73.8 (3.72)			
Utah	6.2 (1.18)	28.4 (2.52)	65.4 (2.58)	6.2 (1.23)	28.2 (2.66)	65.6 (2.78)			
Vermont	2.1 (0.22)	16.6 (0.62)	81.3 (0.63)	1.5 (0.18)	17.1 (0.63)	81.4 (0.62)			
Virginia	4.7 (1.46)	19.4 (2.35)	75.9 (2.76)	3.4 (1.19)	16.1 (2.59)	80.5 (3.12)			
Washington	6.0 (1.59)	20.6 (2.56)	73.4 (2.51)	3.9 (1.14)	20.5 (2.92)	75.6 (2.76)			
West Virginia	4.4 (1.50)	22.0 (2.55)	73.6 (2.74)	4.5 (1.56)	21.7 (2.51)	73.8 (2.76)			
Wisconsin	4.1 (1.23)	21.4 (3.23)	74.5 (3.36)	3.6 (1.17)	20.6 (3.44)	75.8 (3.61)			
Wyoming	5.3 (0.55)	23.5 (0.72)	71.2 (0.86)	5.8 (0.63)	22.2 (0.79)	72.0 (0.94)			
Department of Defense Dependents Schools	# (†)	7.9 (0.53)	92.1 (0.53)	# (†)	7.4 (1.02)	92.6 (1.02)			

See notes at end of table.

**TABLE B-39.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Black			Hispanic					
	Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1–5	More than 5	Less than 1	1–5	More than 5			
<b>Nation (public)</b>	5.7 (0.47)	22.5 (1.18)	71.8 (1.16)	5.9 (0.86)	21.6 (1.48)	72.5 (1.60)			
Alabama	4.3 (1.49)	22.6 (4.91)	73.1 (4.88)	8.4 (4.11)	21.1 (5.24)	70.5 (6.90)			
Alaska	‡ (†)	‡ (†)	‡ (†)	5.2 (2.28)	13.7 (3.86)	81.1 (4.40)			
Arizona	7.7 (3.67)	32.1 (8.35)	60.2 (7.62)	10.8 (3.38)	19.1 (4.05)	70.0 (4.66)			
Arkansas	8.9 (2.83)	18.8 (5.41)	72.4 (6.28)	7.7 (2.59)	26.4 (4.80)	65.8 (4.92)			
California	3.2 (1.50)	14.7 (4.59)	82.1 (4.66)	4.0 (1.28)	18.9 (2.94)	77.1 (3.28)			
Colorado	4.8 (2.47)	19.0 (5.44)	76.2 (5.80)	13.1 (3.68)	20.9 (3.70)	66.0 (4.17)			
Connecticut	5.9 (2.46)	25.4 (5.52)	68.6 (5.99)	8.9 (2.83)	29.6 (5.14)	61.5 (5.29)			
Delaware	3.9 (0.76)	25.0 (1.51)	71.1 (1.66)	8.6 (1.51)	17.6 (2.61)	73.8 (2.82)			
District of Columbia	3.7 (0.51)	33.7 (1.05)	62.5 (1.08)	10.5 (2.20)	36.3 (3.07)	53.3 (3.00)			
Florida	8.3 (2.82)	21.5 (3.80)	70.2 (4.70)	5.6 (1.72)	20.1 (2.75)	74.4 (3.47)			
Georgia	5.0 (1.65)	16.8 (2.46)	78.2 (3.01)	7.1 (2.68)	15.5 (3.20)	77.4 (3.55)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	12.1 (2.81)	23.9 (3.47)	64.0 (3.32)			
Idaho	‡ (†)	‡ (†)	‡ (†)	4.7 (1.09)	32.6 (4.14)	62.6 (4.19)			
Illinois	0.5 (0.44)	21.2 (2.90)	78.3 (2.87)	4.8 (2.04)	17.6 (3.25)	77.7 (3.52)			
Indiana	4.5 (3.01)	27.1 (8.96)	68.3 (8.12)	9.9 (3.95)	16.6 (4.60)	73.6 (4.71)			
Iowa	2.8 (1.70)	15.2 (4.07)	82.0 (4.07)	1.5 (0.94)	21.4 (6.00)	77.1 (6.22)			
Kansas	5.4 (2.66)	27.4 (6.39)	67.2 (6.69)	5.7 (2.51)	31.8 (3.76)	62.4 (4.62)			
Kentucky	8.7 (1.78)	14.2 (3.16)	77.1 (3.20)	8.7 (2.77)	24.1 (5.64)	67.2 (5.95)			
Louisiana	11.9 (4.09)	20.8 (4.26)	67.3 (4.87)	14.1 (5.26)	18.1 (6.74)	67.8 (7.32)			
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maryland	8.3 (2.13)	13.1 (1.99)	78.6 (2.46)	6.8 (2.40)	18.9 (3.26)	74.2 (3.24)			
Massachusetts	2.3 (1.21)	27.1 (5.12)	70.6 (5.33)	4.8 (3.24)	21.4 (4.26)	73.7 (4.83)			
Michigan	0.2 (0.04)	22.2 (7.27)	77.6 (7.28)	# (†)	20.6 (6.82)	79.4 (6.82)			
Minnesota	14.6 (6.27)	30.6 (9.38)	54.8 (9.48)	4.1 (1.61)	14.1 (4.61)	81.8 (4.45)			
Mississippi	12.7 (3.76)	27.2 (5.41)	60.1 (4.90)	‡ (†)	‡ (†)	‡ (†)			
Missouri	14.8 (6.78)	23.9 (7.63)	61.3 (9.04)	6.1 (2.71)	15.6 (4.46)	78.3 (4.78)			
Montana	‡ (†)	‡ (†)	‡ (†)	7.6 (3.17)	10.9 (3.26)	81.4 (4.77)			
Nebraska	4.9 (2.03)	23.3 (4.16)	71.8 (4.59)	6.1 (1.24)	20.4 (2.86)	73.6 (2.68)			
Nevada	4.2 (1.50)	27.6 (5.06)	68.2 (5.11)	10.0 (1.65)	24.3 (1.68)	65.7 (1.98)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	1.3 (1.27)	3.1 (2.34)	95.6 (2.72)			
New Jersey	1.9 (1.26)	17.7 (3.96)	80.4 (4.38)	1.1 (0.65)	15.5 (4.22)	83.4 (4.26)			
New Mexico	‡ (†)	‡ (†)	‡ (†)	6.8 (1.63)	18.4 (1.61)	74.8 (2.27)			
New York	1.9 (1.89)	23.6 (7.80)	74.5 (7.39)	0.9 (0.52)	19.3 (2.78)	79.8 (2.80)			
North Carolina	6.1 (2.25)	27.6 (3.84)	66.4 (4.35)	8.1 (2.92)	31.8 (5.15)	60.2 (5.34)			
North Dakota	‡ (†)	‡ (†)	‡ (†)	10.2 (2.94)	29.1 (4.54)	60.7 (4.87)			
Ohio	0.9 (0.72)	18.8 (5.80)	80.3 (5.56)	1.5 (1.64)	8.1 (4.35)	90.4 (5.06)			
Oklahoma	2.4 (2.22)	21.3 (5.76)	76.3 (6.76)	0.8 (0.75)	14.6 (3.32)	84.6 (3.49)			
Oregon	‡ (†)	‡ (†)	‡ (†)	1.7 (1.05)	23.3 (4.65)	75.0 (4.69)			
Pennsylvania	2.4 (1.59)	34.6 (9.21)	63.0 (9.35)	1.2 (0.85)	14.2 (2.98)	84.6 (3.24)			
Rhode Island	0.8 (0.74)	16.6 (2.84)	82.6 (2.88)	0.3 (0.26)	21.2 (1.72)	78.5 (1.73)			
South Carolina	7.8 (2.90)	18.2 (3.18)	74.0 (3.13)	4.1 (1.80)	25.7 (4.67)	70.2 (4.79)			
South Dakota	‡ (†)	‡ (†)	‡ (†)	4.2 (2.57)	21.7 (4.33)	74.0 (4.01)			
Tennessee	9.2 (4.81)	17.9 (6.73)	72.9 (8.26)	11.6 (5.45)	17.9 (5.62)	70.4 (7.47)			
Texas	6.3 (1.80)	26.2 (6.50)	67.5 (6.32)	7.4 (3.46)	26.8 (4.63)	65.8 (5.18)			
Utah	‡ (†)	‡ (†)	‡ (†)	7.0 (1.83)	31.0 (4.26)	62.0 (3.96)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	5.0 (2.30)	28.5 (4.56)	66.5 (4.97)	7.8 (2.80)	21.6 (3.93)	70.6 (3.05)			
Washington	12.2 (5.59)	28.8 (7.85)	59.1 (8.35)	7.1 (3.04)	19.2 (4.06)	73.7 (3.86)			
West Virginia	2.4 (2.43)	25.5 (6.49)	72.1 (6.76)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	6.4 (4.07)	25.2 (7.86)	68.4 (8.33)	7.7 (3.65)	23.5 (5.72)	68.8 (5.81)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	4.4 (1.39)	28.0 (2.93)	67.6 (2.70)			
Department of Defense Dependents Schools	# (†)	9.5 (1.79)	90.5 (1.79)	# (†)	8.0 (1.74)	92.0 (1.74)			

See notes at end of table.

**TABLE B-39.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

(Standard errors in parentheses)												
State	Asian						Pacific Islander					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>2.3</b>	<b>(0.37)</b>	<b>19.4</b>	<b>(2.34)</b>	<b>78.3</b>	<b>(2.30)</b>	<b>6.4</b>	<b>(1.60)</b>	<b>17.4</b>	<b>(1.93)</b>	<b>76.1</b>	<b>(2.53)</b>
Alabama	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Alaska	0.9	(0.90)	30.7	(3.82)	68.4	(3.84)	‡	(†)	‡	(†)	‡	(†)
Arizona	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Arkansas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
California	0.7	(0.65)	20.0	(6.76)	79.3	(6.77)	‡	(†)	‡	(†)	‡	(†)
Colorado	3.4	(2.47)	21.8	(7.41)	74.8	(7.64)	‡	(†)	‡	(†)	‡	(†)
Connecticut	3.6	(2.04)	14.9	(4.29)	81.5	(4.44)	‡	(†)	‡	(†)	‡	(†)
Delaware	2.6	(1.78)	20.3	(4.17)	77.1	(4.43)	‡	(†)	‡	(†)	‡	(†)
District of Columbia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Florida	6.1	(4.15)	29.9	(8.46)	63.9	(8.05)	‡	(†)	‡	(†)	‡	(†)
Georgia	1.3	(1.25)	20.5	(6.11)	78.3	(6.17)	‡	(†)	‡	(†)	‡	(†)
Hawaii	6.1	(0.84)	17.7	(1.33)	76.2	(1.33)	7.8	(1.59)	24.0	(2.37)	68.2	(2.52)
Idaho	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Illinois	#	(†)	9.5	(3.64)	90.5	(3.64)	‡	(†)	‡	(†)	‡	(†)
Indiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Iowa	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Kansas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Kentucky	7.7	(3.25)	24.7	(5.94)	67.6	(6.48)	‡	(†)	‡	(†)	‡	(†)
Louisiana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maine	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maryland	2.2	(1.98)	13.8	(5.31)	84.0	(5.56)	‡	(†)	‡	(†)	‡	(†)
Massachusetts	0.8	(0.83)	22.1	(4.66)	77.1	(4.94)	‡	(†)	‡	(†)	‡	(†)
Michigan	1.4	(1.39)	14.2	(5.87)	84.4	(6.06)	‡	(†)	‡	(†)	‡	(†)
Minnesota	3.2	(1.48)	30.4	(4.72)	66.4	(5.17)	‡	(†)	‡	(†)	‡	(†)
Mississippi	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Missouri	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Montana	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nebraska	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nevada	6.1	(2.07)	18.1	(3.32)	75.8	(3.26)	‡	(†)	‡	(†)	‡	(†)
New Hampshire	#	(†)	10.0	(4.10)	90.0	(4.10)	‡	(†)	‡	(†)	‡	(†)
New Jersey	#	(†)	16.0	(3.86)	84.0	(3.86)	‡	(†)	‡	(†)	‡	(†)
New Mexico	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York	0.7	(0.65)	13.8	(3.48)	85.5	(3.55)	‡	(†)	‡	(†)	‡	(†)
North Carolina	8.3	(4.64)	22.5	(6.67)	69.2	(8.37)	‡	(†)	‡	(†)	‡	(†)
North Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Ohio	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oklahoma	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Oregon	#	(†)	24.8	(5.31)	75.2	(5.31)	‡	(†)	‡	(†)	‡	(†)
Pennsylvania	6.6	(4.19)	22.1	(8.40)	71.3	(8.69)	‡	(†)	‡	(†)	‡	(†)
Rhode Island	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Carolina	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Dakota	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Tennessee	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Texas	0.1	(0.04)	28.6	(6.06)	71.3	(6.06)	‡	(†)	‡	(†)	‡	(†)
Utah	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Vermont	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Virginia	6.2	(2.77)	13.2	(3.92)	80.6	(4.68)	‡	(†)	‡	(†)	‡	(†)
Washington	10.7	(4.61)	22.6	(5.17)	66.7	(5.54)	‡	(†)	‡	(†)	‡	(†)
West Virginia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wisconsin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wyoming	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Department of Defense Dependents Schools	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)

See notes at end of table.

**TABLE B-39.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and state: 2015—Continued

State	(Standard errors in parentheses)								
	American Indian/Alaska Native			Two or more races					
	Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>2.6 (0.51)</b>	<b>20.9 (2.20)</b>	<b>76.5 (2.22)</b>	<b>4.6 (0.64)</b>	<b>18.8 (1.60)</b>	<b>76.6 (1.52)</b>			
Alabama	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)
Alaska	6.1 (2.48)	27.9 (4.50)	66.0 (5.00)	3.7 (1.65)	18.7 (3.68)	77.6 (3.81)			
Arizona	3.6 (2.47)	23.8 (6.53)	72.6 (7.28)	‡ (†)	‡ (†)	‡ (†)			
Arkansas	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
California	‡ (†)	‡ (†)	‡ (†)	3.2 (3.16)	18.4 (12.62)	78.4 (12.43)			
Colorado	‡ (†)	‡ (†)	‡ (†)	10.1 (5.32)	23.6 (6.79)	66.2 (7.91)			
Connecticut	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Delaware	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Florida	‡ (†)	‡ (†)	‡ (†)	7.8 (6.13)	15.2 (6.35)	77.0 (8.00)			
Georgia	‡ (†)	‡ (†)	‡ (†)	1.9 (1.84)	22.0 (6.89)	76.1 (6.16)			
Hawaii	‡ (†)	‡ (†)	‡ (†)	13.4 (2.45)	24.0 (3.32)	62.6 (3.25)			
Idaho	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Illinois	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Indiana	‡ (†)	‡ (†)	‡ (†)	4.8 (2.38)	19.8 (5.36)	75.4 (5.82)			
Iowa	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Kansas	‡ (†)	‡ (†)	‡ (†)	8.5 (3.47)	23.0 (4.59)	68.5 (5.58)			
Kentucky	‡ (†)	‡ (†)	‡ (†)	8.9 (3.57)	21.2 (6.40)	69.9 (7.00)			
Louisiana	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maine	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Maryland	‡ (†)	‡ (†)	‡ (†)	7.0 (4.11)	14.9 (4.87)	78.0 (5.82)			
Massachusetts	‡ (†)	‡ (†)	‡ (†)	5.5 (4.19)	17.4 (5.89)	77.1 (6.13)			
Michigan	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Minnesota	8.9 (5.95)	20.8 (7.57)	70.3 (8.27)	‡ (†)	‡ (†)	‡ (†)			
Mississippi	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Missouri	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Montana	5.4 (3.35)	18.2 (3.32)	76.4 (4.22)	‡ (†)	‡ (†)	‡ (†)			
Nebraska	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Nevada	‡ (†)	‡ (†)	‡ (†)	4.8 (2.43)	20.0 (4.11)	75.2 (4.51)			
New Hampshire	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Jersey	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
New Mexico	2.1 (0.96)	13.2 (4.59)	84.7 (4.64)	‡ (†)	‡ (†)	‡ (†)			
New York	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
North Carolina	4.2 (3.00)	24.2 (9.45)	71.6 (9.59)	0.5 (0.33)	26.6 (7.15)	72.9 (7.26)			
North Dakota	7.7 (1.95)	9.8 (2.41)	82.5 (2.97)	‡ (†)	‡ (†)	‡ (†)			
Ohio	‡ (†)	‡ (†)	‡ (†)	# (†)	8.7 (3.33)	91.3 (3.33)			
Oklahoma	1.4 (0.82)	23.0 (5.87)	75.6 (5.83)	2.1 (1.87)	21.6 (5.74)	76.3 (5.68)			
Oregon	‡ (†)	‡ (†)	‡ (†)	2.3 (1.67)	23.3 (5.39)	74.4 (5.53)			
Pennsylvania	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Rhode Island	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
South Carolina	‡ (†)	‡ (†)	‡ (†)	4.8 (3.25)	11.1 (4.16)	84.1 (5.45)			
South Dakota	6.6 (2.38)	22.4 (3.68)	71.1 (4.26)	‡ (†)	‡ (†)	‡ (†)			
Tennessee	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Texas	‡ (†)	‡ (†)	‡ (†)	3.0 (2.69)	31.9 (9.52)	65.2 (9.50)			
Utah	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Vermont	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Virginia	‡ (†)	‡ (†)	‡ (†)	8.1 (3.56)	20.3 (4.79)	71.6 (5.65)			
Washington	3.0 (3.12)	17.6 (6.06)	79.4 (6.65)	10.3 (4.46)	17.0 (4.38)	72.8 (5.87)			
West Virginia	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Wisconsin	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Wyoming	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			
Department of Defense Dependents Schools	‡ (†)	‡ (†)	‡ (†)	# (†)	5.9 (1.81)	94.1 (1.81)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-40.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and jurisdiction: 2015

(Standard errors in parentheses)									
Jurisdiction	Years of experience of reading teacher			White			Years of experience of reading teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	<b>4.4</b> (0.29)	<b>19.2</b> (0.69)	<b>76.4</b> (0.69)	<b>3.5</b> (0.22)	<b>17.2</b> (0.66)	<b>79.3</b> (0.66)			
Large city	6.6 (1.52)	21.7 (1.62)	71.7 (2.16)	5.8 (1.29)	16.1 (2.34)	78.2 (2.71)			
Albuquerque	5.9 (1.25)	18.4 (1.49)	75.7 (1.83)	1.6 (0.89)	16.1 (2.52)	82.3 (2.67)			
Atlanta	# (†)	8.6 (0.61)	91.4 (0.61)	# (†)	3.9 (1.72)	96.1 (1.72)			
Austin	4.5 (0.42)	38.4 (0.95)	57.1 (1.02)	1.2 (0.64)	29.0 (2.61)	69.8 (2.62)			
Baltimore City	9.8 (3.30)	25.1 (4.12)	65.1 (5.16)	‡ (†)	‡ (†)	‡ (†)			
Boston	1.1 (0.36)	21.4 (0.96)	77.5 (0.88)	0.8 (0.78)	4.8 (1.73)	94.4 (1.92)			
Charlotte	7.4 (0.96)	31.5 (1.80)	61.0 (2.15)	0.7 (0.52)	32.8 (2.51)	66.5 (2.65)			
Chicago	1.8 (1.31)	29.0 (4.11)	69.2 (4.25)	1.0 (0.97)	15.9 (7.35)	83.2 (7.38)			
Cleveland	1.9 (0.37)	1.2 (0.27)	97.0 (0.45)	# (†)	# (†)	100.0 <sup>1</sup> (†)			
Dallas	11.2 (1.20)	47.0 (2.36)	41.8 (2.04)	‡ (†)	‡ (†)	‡ (†)			
Detroit	1.4 (0.26)	9.1 (0.50)	89.5 (0.58)	‡ (†)	‡ (†)	‡ (†)			
District of Columbia (DCPS)	6.6 (0.97)	32.3 (1.45)	61.1 (1.57)	‡ (†)	‡ (†)	‡ (†)			
Fresno	9.6 (1.65)	18.0 (1.66)	72.4 (1.50)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	4.4 (2.67)	13.2 (2.54)	82.4 (1.94)	1.7 (1.78)	12.1 (2.32)	86.2 (3.10)			
Houston	11.2 (1.37)	23.6 (1.60)	65.2 (2.09)	5.2 (2.52)	19.8 (4.06)	74.9 (3.62)			
Jefferson County (KY)	10.3 (1.09)	9.8 (0.89)	79.9 (1.61)	7.6 (1.15)	10.1 (1.28)	82.4 (1.61)			
Los Angeles	4.3 (1.19)	8.5 (2.89)	87.2 (2.90)	2.9 (2.31)	4.9 (4.73)	92.2 (4.85)			
Miami-Dade	0.3 (0.26)	10.1 (3.05)	89.6 (3.05)	# (†)	8.5 (4.26)	91.5 (4.26)			
New York City	0.5 (0.42)	19.5 (2.54)	79.9 (2.62)	# (†)	12.5 (3.99)	87.5 (3.99)			
Philadelphia	3.7 (3.07)	13.0 (5.07)	83.4 (5.68)	# (†)	0.7 (0.68)	99.3 (0.68)			
San Diego	1.1 (0.49)	8.7 (1.86)	90.2 (2.04)	# (†)	7.4 (1.58)	92.6 (1.58)			
Duval County (FL)	6.0 (1.64)	20.5 (3.23)	73.4 (2.80)	4.2 (1.15)	14.9 (4.31)	80.9 (3.92)			
	Black			Hispanic					
Jurisdiction	Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	<b>5.7</b> (0.47)	<b>22.5</b> (1.18)	<b>71.8</b> (1.16)	<b>5.9</b> (0.86)	<b>21.6</b> (1.48)	<b>72.5</b> (1.60)			
Large city	5.7 (0.89)	24.9 (2.62)	69.3 (2.53)	8.8 (2.92)	23.8 (2.18)	67.4 (3.24)			
Albuquerque	‡ (†)	‡ (†)	‡ (†)	7.4 (1.80)	18.5 (1.75)	74.0 (2.21)			
Atlanta	# (†)	9.0 (0.64)	91.0 (0.64)	# (†)	13.5 (3.62)	86.5 (3.62)			
Austin	6.9 (2.26)	45.3 (5.85)	47.8 (5.87)	5.5 (0.79)	43.9 (1.66)	50.6 (1.66)			
Baltimore City	10.9 (3.78)	25.6 (4.28)	63.5 (5.43)	7.6 (5.24)	22.1 (6.26)	70.3 (8.08)			
Boston	1.2 (0.66)	30.7 (2.50)	68.1 (2.47)	1.1 (0.61)	22.4 (2.21)	76.6 (2.25)			
Charlotte	11.6 (1.87)	32.6 (2.79)	55.8 (3.36)	12.0 (2.42)	27.2 (3.69)	60.7 (4.30)			
Chicago	0.2 (0.20)	30.9 (4.73)	68.9 (4.74)	3.5 (2.63)	30.2 (6.43)	66.3 (6.70)			
Cleveland	2.7 (0.65)	1.9 (0.45)	95.4 (0.78)	# (†)	# (†)	100.0 <sup>1</sup> (†)			
Dallas	8.2 (2.10)	38.4 (4.00)	53.4 (3.86)	12.0 (1.39)	51.2 (2.75)	36.8 (2.37)			
Detroit	1.7 (0.32)	10.9 (0.66)	87.4 (0.75)	# (†)	0.8 (0.79)	99.2 (0.79)			
District of Columbia (DCPS)	4.5 (1.02)	33.4 (1.62)	62.0 (1.65)	21.2 (4.40)	26.0 (4.56)	52.8 (4.61)			
Fresno	‡ (†)	‡ (†)	‡ (†)	10.9 (2.01)	17.3 (2.41)	71.8 (2.64)			
Hillsborough County (FL)	9.7 (7.01)	17.7 (5.14)	72.6 (4.56)	3.8 (2.42)	11.9 (3.18)	84.3 (2.99)			
Houston	15.1 (3.56)	28.1 (4.20)	56.8 (4.78)	11.2 (1.23)	23.8 (1.62)	65.0 (1.92)			
Jefferson County (KY)	13.5 (2.08)	8.6 (1.72)	77.9 (2.83)	14.9 (3.61)	13.5 (4.10)	71.6 (5.39)			
Los Angeles	6.9 (3.70)	1.4 (1.42)	91.6 (3.91)	4.5 (1.14)	9.3 (3.17)	86.1 (3.16)			
Miami-Dade	1.6 (1.12)	11.0 (4.37)	87.4 (4.32)	# (†)	10.2 (3.39)	89.8 (3.39)			
New York City	# (†)	15.4 (3.74)	84.6 (3.74)	0.9 (0.70)	30.3 (4.76)	68.7 (4.76)			
Philadelphia	7.2 (6.02)	14.6 (6.55)	78.2 (8.25)	# (†)	24.8 (11.85)	75.2 (11.85)			
San Diego	# (†)	7.2 (4.63)	92.8 (4.63)	2.1 (1.01)	11.8 (3.18)	86.1 (3.52)			
Duval County (FL)	8.7 (3.31)	27.9 (4.32)	63.4 (3.02)	2.2 (1.49)	19.3 (4.80)	78.5 (4.86)			

See notes at end of table.

**TABLE B-40.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, race/ethnicity, and jurisdiction: 2015—Continued

(Standard errors in parentheses)												
Jurisdiction	Asian						Pacific Islander					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>2.3</b>	<b>(0.37)</b>	<b>19.4</b>	<b>(2.34)</b>	<b>78.3</b>	<b>(2.30)</b>	<b>6.4</b>	<b>(1.60)</b>	<b>17.4</b>	<b>(1.93)</b>	<b>76.1</b>	<b>(2.53)</b>
Large city	1.6	(0.46)	15.0	(2.76)	83.5	(2.99)	3.1	(1.05)	15.3	(3.31)	81.6	(3.85)
Albuquerque	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Atlanta	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Austin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Baltimore City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Boston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Charlotte	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Chicago	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Cleveland	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Dallas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Detroit	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
District of Columbia (DCPS)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Fresno	4.4	(2.53)	19.9	(5.70)	75.7	(6.02)	‡	(†)	‡	(†)	‡	(†)
Hillsborough County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Houston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jefferson County (KY)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Los Angeles	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Miami-Dade	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York City	1.0	(1.00)	11.5	(2.32)	87.5	(2.50)	‡	(†)	‡	(†)	‡	(†)
Philadelphia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
San Diego	0.7	(0.64)	5.2	(2.04)	94.2	(2.21)	‡	(†)	‡	(†)	‡	(†)
Duval County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jurisdiction	American Indian/Alaska Native						Two or more races					
	Years of experience of reading teacher						Years of experience of reading teacher					
	Less than 1		1-5		More than 5		Less than 1		1-5		More than 5	
<b>Nation (public)</b>	<b>2.6</b>	<b>(0.51)</b>	<b>20.9</b>	<b>(2.20)</b>	<b>76.5</b>	<b>(2.22)</b>	<b>4.6</b>	<b>(0.64)</b>	<b>18.8</b>	<b>(1.60)</b>	<b>76.6</b>	<b>(1.52)</b>
Large city	4.1	(1.60)	27.3	(6.73)	68.6	(6.91)	3.8	(1.23)	21.9	(6.60)	74.3	(6.64)
Albuquerque	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Atlanta	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Austin	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Baltimore City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Boston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Charlotte	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Chicago	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Cleveland	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Dallas	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Detroit	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
District of Columbia (DCPS)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Fresno	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Hillsborough County (FL)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Houston	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Jefferson County (KY)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Los Angeles	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Miami-Dade	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
New York City	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Philadelphia	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
San Diego	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Duval County (FL)	‡	(†)	‡	(†)	‡	(†)	1.2	(1.16)	6.1	(2.77)	92.7	(3.07)

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-41.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, disability status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)									
	Years of experience of reading teacher			With a disability			Without a disability			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	4.1 (0.38)	20.2 (0.80)	75.7 (0.76)	4.4 (0.30)	19.1 (0.71)	76.5 (0.71)	
<b>Location</b>										
City	5.9 (0.91)	22.1 (1.38)	72.0 (1.61)	5.0 (0.58)	24.7 (1.66)	70.3 (1.63)	6.1 (0.99)	21.7 (1.42)	72.2 (1.70)	
Suburban	3.5 (0.34)	16.8 (0.95)	79.7 (0.94)	3.2 (0.48)	17.3 (1.09)	79.5 (1.07)	3.5 (0.36)	16.8 (0.99)	79.7 (0.97)	
Town	3.9 (0.65)	19.8 (2.08)	76.3 (2.09)	4.2 (1.00)	17.7 (2.60)	78.1 (2.11)	3.8 (0.68)	20.1 (2.14)	76.1 (2.18)	
Rural	4.4 (0.70)	19.6 (1.15)	76.0 (1.29)	4.4 (1.12)	20.8 (1.85)	74.8 (1.76)	4.3 (0.67)	19.4 (1.14)	76.2 (1.31)	
<b>Minority enrollment</b>										
75 percent or more	6.2 (0.97)	24.1 (1.58)	69.7 (1.76)	5.7 (0.88)	27.2 (2.04)	67.1 (2.06)	6.2 (1.04)	23.7 (1.62)	70.0 (1.81)	
Less than 75 percent	3.8 (0.30)	17.5 (0.69)	78.7 (0.69)	3.6 (0.43)	17.9 (0.81)	78.5 (0.86)	3.8 (0.30)	17.4 (0.70)	78.8 (0.71)	

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-42.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, disability status, and state: 2015

State	(Standard errors in parentheses)								
	Years of experience of reading teacher			With a disability			Without a disability		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	4.1 (0.38)	20.2 (0.80)	75.7 (0.76)	4.4 (0.30)	19.1 (0.71)	76.5 (0.71)
Alabama	5.5 (2.06)	16.8 (2.57)	77.7 (3.34)	6.3 (2.89)	18.4 (4.25)	75.3 (4.52)	5.5 (2.07)	16.6 (2.55)	77.9 (3.34)
Alaska	5.0 (0.84)	19.7 (1.58)	75.4 (1.74)	5.7 (1.93)	11.9 (2.90)	82.4 (3.11)	4.7 (0.84)	20.9 (1.71)	74.4 (1.84)
Arizona	9.6 (2.37)	20.4 (2.87)	70.0 (3.37)	8.5 (3.41)	22.1 (4.53)	69.4 (4.09)	9.7 (2.44)	20.2 (2.88)	70.1 (3.53)
Arkansas	7.2 (1.57)	20.6 (2.43)	72.2 (3.23)	4.7 (2.15)	16.7 (3.50)	78.6 (5.13)	7.5 (1.63)	21.0 (2.48)	71.4 (3.19)
California	2.6 (0.85)	16.6 (2.66)	80.8 (2.81)	3.4 (1.41)	18.8 (4.07)	77.9 (3.86)	2.5 (0.90)	16.5 (2.70)	81.0 (2.85)
Colorado	9.0 (2.22)	21.0 (3.13)	70.0 (3.35)	11.3 (3.28)	16.8 (4.91)	71.9 (5.25)	8.8 (2.20)	21.4 (3.15)	69.8 (3.39)
Connecticut	5.0 (1.49)	20.9 (2.94)	74.1 (3.31)	3.1 (1.35)	24.7 (4.34)	72.2 (4.53)	5.4 (1.59)	20.2 (2.84)	74.4 (3.26)
Delaware	5.6 (0.40)	22.1 (0.73)	72.4 (0.82)	6.1 (1.16)	24.7 (2.53)	69.2 (2.79)	5.5 (0.46)	21.6 (0.85)	72.9 (0.94)
District of Columbia	4.4 (0.47)	34.2 (0.90)	61.4 (0.93)	8.2 (2.12)	28.0 (3.50)	63.8 (3.99)	3.5 (0.43)	35.7 (1.04)	60.7 (1.04)
Florida	6.2 (1.78)	21.1 (2.47)	72.7 (3.14)	3.2 (1.02)	24.6 (5.68)	72.2 (5.50)	6.6 (1.94)	20.6 (2.38)	72.8 (3.23)
Georgia	3.8 (1.10)	15.5 (2.06)	80.7 (2.28)	3.6 (1.91)	15.1 (3.94)	81.3 (4.23)	3.9 (1.12)	15.5 (1.98)	80.6 (2.22)
Hawaii	7.5 (0.79)	21.4 (1.08)	71.1 (1.12)	7.6 (2.23)	34.5 (3.85)	57.9 (4.11)	7.5 (0.76)	20.1 (1.14)	72.4 (1.10)
Idaho	4.0 (0.74)	21.4 (1.88)	74.6 (1.78)	4.7 (1.60)	10.0 (2.69)	85.3 (3.00)	3.9 (0.78)	22.6 (1.89)	73.5 (1.80)
Illinois	3.8 (1.64)	12.7 (1.82)	83.5 (2.37)	2.1 (1.53)	18.8 (2.56)	79.1 (2.83)	4.0 (1.75)	11.9 (1.87)	84.0 (2.44)
Indiana	6.6 (1.78)	21.2 (3.26)	72.2 (3.58)	5.7 (2.34)	20.3 (4.16)	74.0 (5.14)	6.7 (1.77)	21.4 (3.34)	71.9 (3.56)
Iowa	5.6 (1.58)	17.5 (2.37)	76.9 (2.52)	5.5 (2.22)	18.2 (3.73)	76.3 (3.85)	5.6 (1.53)	17.5 (2.48)	77.0 (2.65)

See notes at end of table.

**TABLE B-42.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, disability status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			With a disability			Without a disability					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
Kansas	4.1 (1.02)	27.7 (3.18)	68.2 (3.32)	2.0 (0.90)	29.5 (4.63)	68.4 (4.69)	4.4 (1.14)	27.5 (3.17)	68.2 (3.33)			
Kentucky	6.4 (1.28)	19.5 (2.52)	74.0 (2.79)	9.6 (2.13)	15.5 (2.50)	74.9 (3.04)	6.1 (1.29)	20.0 (2.64)	73.9 (2.90)			
Louisiana	11.0 (3.11)	16.4 (2.88)	72.6 (3.64)	12.6 (3.82)	13.7 (2.97)	73.7 (4.35)	10.7 (3.06)	16.9 (3.07)	72.4 (3.72)			
Maine	3.4 (0.75)	13.0 (1.52)	83.5 (1.72)	4.9 (1.73)	13.7 (1.96)	81.4 (2.51)	3.2 (0.70)	12.9 (1.69)	83.9 (1.87)			
Maryland	5.4 (1.22)	11.4 (1.53)	83.3 (1.76)	4.3 (2.06)	10.9 (2.20)	84.8 (2.89)	5.5 (1.24)	11.4 (1.55)	83.1 (1.79)			
Massachusetts	3.2 (1.28)	21.9 (2.71)	75.0 (3.03)	3.4 (1.65)	23.1 (3.27)	73.5 (3.55)	3.1 (1.30)	21.6 (2.77)	75.3 (3.07)			
Michigan	0.1 (0.07)	18.2 (3.60)	81.7 (3.59)	0.1 (0.04)	18.3 (4.55)	81.6 (4.55)	0.1 (0.08)	18.2 (3.68)	81.7 (3.68)			
Minnesota	4.1 (1.14)	18.8 (2.72)	77.1 (2.81)	1.7 (0.93)	16.6 (3.30)	81.7 (3.23)	4.4 (1.23)	19.1 (2.81)	76.5 (2.94)			
Mississippi	10.9 (2.37)	24.2 (3.30)	64.9 (3.49)	15.0 (4.62)	25.0 (4.67)	60.0 (6.10)	10.4 (2.28)	24.2 (3.32)	65.4 (3.44)			
Missouri	6.6 (1.74)	17.8 (2.87)	75.6 (3.08)	4.1 (1.87)	23.7 (3.67)	72.2 (3.45)	6.9 (1.81)	17.0 (2.97)	76.0 (3.24)			
Montana	4.7 (0.72)	15.9 (1.30)	79.4 (1.38)	5.1 (1.70)	14.2 (2.34)	80.7 (2.61)	4.7 (0.77)	16.1 (1.41)	79.2 (1.51)			
Nebraska	3.1 (0.72)	17.9 (2.05)	79.0 (2.17)	1.8 (1.00)	18.3 (2.90)	79.9 (3.17)	3.3 (0.76)	17.9 (2.11)	78.9 (2.23)			
Nevada	6.7 (1.02)	20.0 (1.19)	73.3 (1.35)	4.3 (1.69)	22.7 (2.83)	73.0 (3.24)	6.9 (1.09)	19.7 (1.22)	73.4 (1.33)			
New Hampshire	1.8 (0.42)	9.0 (1.45)	89.3 (1.51)	1.9 (0.81)	6.6 (1.54)	91.5 (1.70)	1.8 (0.43)	9.4 (1.61)	88.8 (1.66)			
New Jersey	1.1 (0.46)	18.1 (3.01)	80.8 (3.12)	1.0 (0.68)	13.5 (2.88)	85.5 (2.97)	1.1 (0.54)	19.0 (3.30)	79.8 (3.43)			
New Mexico	5.1 (1.24)	18.3 (1.48)	76.6 (1.94)	4.6 (1.74)	20.7 (3.19)	74.7 (3.75)	5.2 (1.27)	18.0 (1.49)	76.8 (1.97)			
New York	0.7 (0.50)	16.8 (3.16)	82.5 (3.16)	0.6 (0.45)	22.4 (4.37)	76.9 (4.42)	0.7 (0.58)	15.8 (3.11)	83.5 (3.12)			
North Carolina	3.9 (1.36)	25.0 (3.23)	71.0 (3.40)	6.2 (2.68)	24.8 (4.72)	69.0 (4.91)	3.6 (1.22)	25.1 (3.29)	71.4 (3.41)			
North Dakota	8.3 (0.44)	24.8 (0.74)	66.9 (0.83)	5.7 (1.44)	16.3 (2.73)	78.0 (3.09)	8.7 (0.51)	26.0 (0.77)	65.3 (0.87)			
Ohio	0.8 (0.38)	13.5 (2.01)	85.7 (2.02)	1.9 (1.06)	14.3 (3.03)	83.8 (2.78)	0.6 (0.37)	13.4 (1.99)	86.0 (2.01)			
Oklahoma	1.2 (0.73)	19.4 (3.05)	79.4 (3.09)	1.1 (0.84)	22.8 (4.00)	76.1 (3.93)	1.2 (0.76)	18.8 (3.04)	80.0 (3.11)			
Oregon	1.8 (0.83)	19.3 (2.95)	78.9 (2.86)	1.2 (0.91)	22.4 (4.59)	76.4 (4.47)	1.8 (0.84)	18.8 (2.85)	79.4 (2.78)			
Pennsylvania	2.5 (1.43)	17.2 (2.84)	80.3 (2.90)	2.4 (1.48)	18.5 (3.14)	79.2 (3.12)	2.6 (1.45)	16.9 (2.94)	80.5 (3.03)			
Rhode Island	0.9 (0.20)	15.7 (0.63)	83.4 (0.69)	0.7 (0.51)	15.6 (2.21)	83.7 (2.24)	1.0 (0.22)	15.7 (0.71)	83.3 (0.74)			
South Carolina	4.9 (1.36)	17.8 (2.41)	77.3 (2.52)	1.7 (0.64)	18.5 (3.87)	79.8 (3.84)	5.3 (1.52)	17.7 (2.43)	77.0 (2.63)			
South Dakota	4.0 (0.67)	21.2 (1.46)	74.8 (1.52)	4.0 (1.41)	21.1 (3.13)	74.9 (3.90)	4.0 (0.69)	21.2 (1.51)	74.8 (1.50)			
Tennessee	7.2 (1.95)	15.2 (2.62)	77.6 (3.24)	5.7 (2.00)	18.2 (3.01)	76.1 (3.36)	7.4 (2.08)	14.8 (2.72)	77.8 (3.39)			
Texas	5.9 (2.33)	25.3 (3.38)	68.8 (3.78)	6.8 (2.41)	26.2 (4.74)	67.0 (4.17)	5.8 (2.41)	25.2 (3.42)	69.0 (3.91)			
Utah	6.2 (1.18)	28.4 (2.52)	65.4 (2.58)	8.4 (2.52)	26.9 (4.45)	64.7 (4.42)	6.0 (1.26)	28.5 (2.50)	65.5 (2.64)			
Vermont	2.1 (0.22)	16.6 (0.62)	81.3 (0.63)	1.1 (0.60)	17.5 (1.95)	81.5 (2.07)	2.3 (0.30)	16.4 (0.71)	81.3 (0.75)			
Virginia	4.7 (1.46)	19.4 (2.35)	75.9 (2.76)	4.3 (2.26)	18.5 (2.43)	77.2 (2.95)	4.7 (1.47)	19.6 (2.54)	75.7 (2.93)			
Washington	6.0 (1.59)	20.6 (2.56)	73.4 (2.51)	5.1 (1.74)	23.0 (3.74)	71.9 (3.41)	6.1 (1.64)	20.3 (2.76)	73.6 (2.75)			
West Virginia	4.4 (1.50)	22.0 (2.55)	73.6 (2.74)	5.8 (2.01)	20.0 (3.89)	74.2 (3.86)	4.2 (1.57)	22.3 (2.64)	73.5 (2.84)			
Wisconsin	4.1 (1.23)	21.4 (3.23)	74.5 (3.36)	2.9 (1.59)	21.9 (3.51)	75.3 (3.83)	4.3 (1.26)	21.4 (3.43)	74.4 (3.54)			
Wyoming	5.3 (0.55)	23.5 (0.72)	71.2 (0.86)	1.9 (0.87)	20.8 (2.75)	77.4 (2.87)	5.8 (0.60)	23.9 (0.79)	70.3 (0.95)			
Department of Defense Dependents Schools	# (†)	7.9 (0.53)	92.1 (0.53)	# (†)	5.9 (2.20)	94.1 (2.20)	# (†)	8.1 (0.59)	91.9 (0.59)			

† Not applicable.

# Rounds to zero.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

TABLE B-43. Percentage of 8th-grade public school students, by years of experience of their reading teacher, disability status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)									
	Years of experience of reading teacher			With a disability			Without a disability			
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	4.1 (0.38)	20.2 (0.80)	75.7 (0.76)	4.4 (0.30)	19.1 (0.71)	76.5 (0.71)	
Large city	6.6 (1.52)	21.7 (1.62)	71.7 (2.16)	5.9 (1.03)	25.8 (2.07)	68.3 (2.04)	6.8 (1.63)	21.1 (1.66)	72.2 (2.30)	
Albuquerque	5.9 (1.25)	18.4 (1.49)	75.7 (1.83)	5.8 (2.94)	26.0 (4.55)	68.2 (5.10)	5.9 (1.44)	17.2 (1.51)	76.9 (2.09)	
Atlanta	# (†)	8.6 (0.61)	91.4 (0.61)	# (†)	13.2 (3.20)	86.8 (3.20)	# (†)	8.1 (0.59)	91.9 (0.59)	
Austin	4.5 (0.42)	38.4 (0.95)	57.1 (1.02)	4.1 (1.81)	39.5 (3.81)	56.4 (4.23)	4.5 (0.50)	38.3 (1.07)	57.2 (1.20)	
Baltimore City	9.8 (3.30)	25.1 (4.12)	65.1 (5.16)	15.9 (6.13)	22.1 (6.55)	62.1 (8.19)	8.5 (3.04)	25.7 (4.07)	65.9 (5.01)	
Boston	1.1 (0.36)	21.4 (0.96)	77.5 (0.88)	1.8 (1.21)	30.1 (3.44)	68.1 (3.30)	1.0 (0.37)	19.9 (1.01)	79.1 (0.91)	
Charlotte	7.4 (0.96)	31.5 (1.80)	61.0 (2.15)	11.1 (3.84)	33.2 (5.33)	55.7 (5.21)	7.1 (0.90)	31.4 (1.86)	61.5 (2.20)	
Chicago	1.8 (1.31)	29.0 (4.11)	69.2 (4.25)	0.6 (0.63)	36.5 (6.55)	62.8 (6.54)	2.0 (1.50)	27.9 (4.21)	70.2 (4.40)	
Cleveland	1.9 (0.37)	1.2 (0.27)	97.0 (0.45)	4.3 (1.83)	0.8 (0.75)	95.0 (1.95)	1.2 (0.41)	1.3 (0.27)	97.5 (0.49)	
Dallas	11.2 (1.20)	47.0 (2.36)	41.8 (2.04)	‡ (†)	‡ (†)	‡ (†)	11.5 (1.24)	47.1 (2.42)	41.3 (2.12)	
Detroit	1.4 (0.26)	9.1 (0.50)	89.5 (0.58)	2.5 (1.40)	8.0 (2.09)	89.5 (2.70)	1.2 (0.28)	9.3 (0.56)	89.5 (0.65)	
District of Columbia (DCPS)	6.6 (0.97)	32.3 (1.45)	61.1 (1.57)	13.3 (3.58)	26.1 (4.92)	60.6 (5.20)	4.9 (0.78)	34.0 (1.74)	61.1 (1.80)	
Fresno	9.6 (1.65)	18.0 (1.66)	72.4 (1.50)	‡ (†)	‡ (†)	‡ (†)	10.5 (1.81)	16.6 (1.74)	72.9 (1.57)	
Hillsborough County (FL)	4.4 (2.67)	13.2 (2.54)	82.4 (1.94)	5.6 (3.91)	10.7 (3.40)	83.7 (4.08)	4.2 (2.49)	13.7 (2.73)	82.1 (2.09)	
Houston	11.2 (1.37)	23.6 (1.60)	65.2 (2.09)	12.6 (5.20)	25.5 (5.08)	61.9 (4.49)	11.1 (1.33)	23.4 (1.60)	65.5 (2.20)	
Jefferson County (KY)	10.3 (1.09)	9.8 (0.89)	79.9 (1.61)	17.2 (4.11)	16.2 (3.64)	66.5 (5.51)	9.5 (1.05)	9.0 (0.90)	81.4 (1.62)	
Los Angeles	4.3 (1.19)	8.5 (2.89)	87.2 (2.90)	2.4 (1.74)	6.6 (2.86)	91.1 (3.16)	4.5 (1.20)	8.8 (3.07)	86.7 (3.07)	
Miami-Dade	0.3 (0.26)	10.1 (3.05)	89.6 (3.05)	1.4 (1.44)	6.5 (3.32)	92.1 (3.54)	0.2 (0.19)	10.4 (3.12)	89.4 (3.12)	
New York City	0.5 (0.42)	19.5 (2.54)	79.9 (2.62)	1.6 (1.21)	31.5 (5.11)	66.9 (5.24)	0.3 (0.28)	16.9 (2.51)	82.8 (2.56)	
Philadelphia	3.7 (3.07)	13.0 (5.07)	83.4 (5.68)	5.9 (5.17)	12.4 (6.14)	81.6 (8.03)	3.3 (2.78)	13.0 (5.21)	83.6 (5.64)	
San Diego	1.1 (0.49)	8.7 (1.86)	90.2 (2.04)	# (†)	10.3 (3.67)	89.7 (3.67)	1.2 (0.54)	8.5 (1.87)	90.3 (2.08)	
Duval County (FL)	6.0 (1.64)	20.5 (3.23)	73.4 (2.80)	5.5 (2.90)	30.2 (5.98)	64.2 (5.93)	6.1 (1.66)	19.5 (3.27)	74.4 (3.01)	

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-44.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, English language learner status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of reading teacher			English language learner			Not English language learner					
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.7 (0.70)	22.6 (1.82)	71.7 (2.06)	4.3 (0.28)	19.0 (0.68)	76.7 (0.67)			
<b>Location</b>												
City	5.9 (0.91)	22.1 (1.38)	72.0 (1.61)	6.3 (1.14)	25.0 (2.62)	68.7 (2.91)	5.9 (0.91)	21.7 (1.44)	72.4 (1.65)			
Suburban	3.5 (0.34)	16.8 (0.95)	79.7 (0.94)	5.3 (1.21)	17.0 (2.84)	77.8 (3.32)	3.4 (0.35)	16.8 (0.91)	79.8 (0.89)			
Town	3.9 (0.65)	19.8 (2.08)	76.3 (2.09)	3.7 (1.19)	31.8 (6.52)	64.5 (6.63)	3.9 (0.67)	19.3 (1.96)	76.8 (1.98)			
Rural	4.4 (0.70)	19.6 (1.15)	76.0 (1.29)	6.6 (2.90)	24.9 (4.91)	68.5 (4.81)	4.3 (0.67)	19.5 (1.13)	76.2 (1.28)			
<b>Minority enrollment</b>												
75 percent or more	6.2 (0.97)	24.1 (1.58)	69.7 (1.76)	6.4 (1.03)	23.5 (2.59)	70.1 (2.98)	6.1 (1.02)	24.2 (1.63)	69.6 (1.77)			
Less than 75 percent	3.8 (0.30)	17.5 (0.69)	78.7 (0.69)	4.6 (0.73)	21.0 (1.75)	74.4 (1.85)	3.7 (0.30)	17.4 (0.68)	78.9 (0.68)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-45.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, English language learner status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			English language learner			Not English language learner					
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.7 (0.70)	22.6 (1.82)	71.7 (2.06)	4.3 (0.28)	19.0 (0.68)	76.7 (0.67)			
Alabama	5.5 (2.06)	16.8 (2.57)	77.7 (3.34)	‡ (†)	‡ (†)	‡ (†)	5.5 (2.07)	16.7 (2.58)	77.9 (3.34)			
Alaska	5.0 (0.84)	19.7 (1.58)	75.4 (1.74)	7.6 (4.24)	35.7 (6.38)	56.7 (7.13)	4.5 (0.65)	17.5 (1.42)	78.0 (1.52)			
Arizona	9.6 (2.37)	20.4 (2.87)	70.0 (3.37)	‡ (†)	‡ (†)	‡ (†)	9.5 (2.36)	20.1 (2.77)	70.4 (3.40)			
Arkansas	7.2 (1.57)	20.6 (2.43)	72.2 (3.23)	10.5 (3.90)	23.7 (4.03)	65.8 (4.63)	7.0 (1.61)	20.4 (2.54)	72.7 (3.41)			
California	2.6 (0.85)	16.6 (2.66)	80.8 (2.81)	3.2 (1.32)	17.9 (4.20)	78.8 (4.98)	2.5 (0.84)	16.4 (2.88)	81.1 (2.94)			
Colorado	9.0 (2.22)	21.0 (3.13)	70.0 (3.35)	11.1 (4.47)	27.9 (7.33)	61.0 (6.70)	8.8 (2.31)	20.2 (3.18)	71.0 (3.48)			
Connecticut	5.0 (1.49)	20.9 (2.94)	74.1 (3.31)	‡ (†)	‡ (†)	‡ (†)	5.0 (1.51)	20.5 (2.93)	74.4 (3.31)			
Delaware	5.6 (0.40)	22.1 (0.73)	72.4 (0.82)	‡ (†)	‡ (†)	‡ (†)	5.5 (0.36)	22.1 (0.71)	72.4 (0.80)			
District of Columbia	4.4 (0.47)	34.2 (0.90)	61.4 (0.93)	‡ (†)	‡ (†)	‡ (†)	3.9 (0.45)	34.6 (0.92)	61.5 (0.98)			
Florida	6.2 (1.78)	21.1 (2.47)	72.7 (3.14)	10.6 (8.04)	20.7 (5.57)	68.6 (8.90)	6.0 (1.76)	21.1 (2.48)	72.9 (3.11)			
Georgia	3.8 (1.10)	15.5 (2.06)	80.7 (2.28)	11.2 (6.02)	15.3 (5.57)	73.4 (7.71)	3.6 (1.06)	15.5 (2.04)	80.9 (2.27)			
Hawaii	7.5 (0.79)	21.4 (1.08)	71.1 (1.12)	4.1 (2.35)	19.2 (3.76)	76.7 (4.23)	7.7 (0.77)	21.6 (1.16)	70.7 (1.16)			
Idaho	4.0 (0.74)	21.4 (1.88)	74.6 (1.78)	‡ (†)	‡ (†)	‡ (†)	4.0 (0.75)	21.3 (1.85)	74.8 (1.73)			
Illinois	3.8 (1.64)	12.7 (1.82)	83.5 (2.37)	1.6 (1.29)	18.3 (5.93)	80.1 (6.32)	3.9 (1.71)	12.5 (1.86)	83.6 (2.42)			
Indiana	6.6 (1.78)	21.2 (3.26)	72.2 (3.58)	11.0 (4.74)	10.6 (3.89)	78.4 (4.24)	6.4 (1.80)	21.8 (3.34)	71.9 (3.69)			
Iowa	5.6 (1.58)	17.5 (2.37)	76.9 (2.52)	3.3 (1.97)	23.7 (6.18)	73.0 (6.86)	5.7 (1.65)	17.3 (2.42)	77.0 (2.57)			

See notes at end of table.

**TABLE B-45.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, English language learner status, and state: 2015—Continued

State	(Standard errors in parentheses)								
	Years of experience of reading teacher			English language learner			Not English language learner		
	Years of experience of reading teacher			Years of experience of reading teacher			Years of experience of reading teacher		
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5
Kansas	4.1 (1.02)	27.7 (3.18)	68.2 (3.32)	5.0 (2.72)	33.1 (5.38)	61.9 (6.28)	4.0 (0.96)	27.1 (3.36)	68.9 (3.47)
Kentucky	6.4 (1.28)	19.5 (2.52)	74.0 (2.79)	8.8 (3.28)	14.4 (5.39)	76.8 (6.30)	6.4 (1.30)	19.6 (2.55)	74.0 (2.83)
Louisiana	11.0 (3.11)	16.4 (2.88)	72.6 (3.64)	‡ (†)	‡ (†)	‡ (†)	10.9 (3.11)	16.4 (2.89)	72.7 (3.64)
Maine	3.4 (0.75)	13.0 (1.52)	83.5 (1.72)	‡ (†)	‡ (†)	‡ (†)	3.5 (0.77)	13.1 (1.53)	83.4 (1.73)
Maryland	5.4 (1.22)	11.4 (1.53)	83.3 (1.76)	7.4 (4.89)	14.1 (3.86)	78.5 (5.73)	5.3 (1.20)	11.3 (1.53)	83.4 (1.75)
Massachusetts	3.2 (1.28)	21.9 (2.71)	75.0 (3.03)	4.1 (2.87)	35.6 (7.15)	60.2 (6.83)	3.1 (1.25)	21.1 (2.79)	75.7 (3.11)
Michigan	0.1 (0.07)	18.2 (3.60)	81.7 (3.59)	# (†)	22.9 (10.68)	77.1 (10.68)	0.1 (0.08)	18.0 (3.56)	81.8 (3.56)
Minnesota	4.1 (1.14)	18.8 (2.72)	77.1 (2.81)	7.0 (3.19)	39.6 (6.19)	53.4 (6.30)	3.9 (1.12)	17.6 (2.69)	78.6 (2.81)
Mississippi	10.9 (2.37)	24.2 (3.30)	64.9 (3.49)	‡ (†)	‡ (†)	‡ (†)	10.7 (2.36)	24.3 (3.32)	65.0 (3.50)
Missouri	6.6 (1.74)	17.8 (2.87)	75.6 (3.08)	‡ (†)	‡ (†)	‡ (†)	6.7 (1.77)	17.6 (2.86)	75.6 (3.08)
Montana	4.7 (0.72)	15.9 (1.30)	79.4 (1.38)	‡ (†)	‡ (†)	‡ (†)	4.7 (0.70)	16.0 (1.31)	79.3 (1.38)
Nebraska	3.1 (0.72)	17.9 (2.05)	79.0 (2.17)	‡ (†)	‡ (†)	‡ (†)	3.1 (0.73)	17.9 (2.10)	79.0 (2.22)
Nevada	6.7 (1.02)	20.0 (1.19)	73.3 (1.35)	15.4 (3.36)	24.5 (2.69)	60.1 (3.81)	5.2 (0.75)	19.2 (1.16)	75.6 (1.09)
New Hampshire	1.8 (0.42)	9.0 (1.45)	89.3 (1.51)	‡ (†)	‡ (†)	‡ (†)	1.8 (0.42)	9.0 (1.47)	89.2 (1.52)
New Jersey	1.1 (0.46)	18.1 (3.01)	80.8 (3.12)	‡ (†)	‡ (†)	‡ (†)	1.1 (0.47)	18.3 (3.03)	80.6 (3.14)
New Mexico	5.1 (1.24)	18.3 (1.48)	76.6 (1.94)	6.8 (2.50)	17.7 (2.96)	75.5 (3.81)	4.9 (1.14)	18.4 (1.53)	76.7 (1.91)
New York	0.7 (0.50)	16.8 (3.16)	82.5 (3.16)	1.3 (0.93)	34.5 (6.56)	64.2 (6.58)	0.6 (0.52)	15.9 (3.20)	83.5 (3.19)
North Carolina	3.9 (1.36)	25.0 (3.23)	71.0 (3.40)	12.9 (5.98)	26.9 (5.74)	60.2 (7.09)	3.5 (1.19)	24.9 (3.22)	71.5 (3.35)
North Dakota	8.3 (0.44)	24.8 (0.74)	66.9 (0.83)	‡ (†)	‡ (†)	‡ (†)	8.4 (0.45)	24.6 (0.74)	67.0 (0.83)
Ohio	0.8 (0.38)	13.5 (2.01)	85.7 (2.02)	# (†)	4.8 (5.18)	95.2 (5.18)	0.8 (0.39)	13.8 (2.05)	85.4 (2.05)
Oklahoma	1.2 (0.73)	19.4 (3.05)	79.4 (3.09)	# (†)	14.1 (4.34)	85.9 (4.34)	1.2 (0.77)	19.7 (3.13)	79.1 (3.18)
Oregon	1.8 (0.83)	19.3 (2.95)	78.9 (2.86)	‡ (†)	‡ (†)	‡ (†)	1.7 (0.81)	19.1 (2.90)	79.2 (2.79)
Pennsylvania	2.5 (1.43)	17.2 (2.84)	80.3 (2.90)	7.6 (6.83)	15.7 (5.68)	76.6 (8.15)	2.4 (1.46)	17.2 (2.87)	80.4 (2.91)
Rhode Island	0.9 (0.20)	15.7 (0.63)	83.4 (0.69)	# (†)	11.0 (2.65)	89.0 (2.65)	1.0 (0.21)	15.9 (0.65)	83.1 (0.71)
South Carolina	4.9 (1.36)	17.8 (2.41)	77.3 (2.52)	4.5 (1.93)	24.7 (6.18)	70.8 (6.29)	4.9 (1.40)	17.5 (2.39)	77.6 (2.48)
South Dakota	4.0 (0.67)	21.2 (1.46)	74.8 (1.52)	‡ (†)	‡ (†)	‡ (†)	4.0 (0.68)	21.1 (1.46)	74.8 (1.51)
Tennessee	7.2 (1.95)	15.2 (2.62)	77.6 (3.24)	‡ (†)	‡ (†)	‡ (†)	7.3 (1.96)	15.1 (2.65)	77.6 (3.27)
Texas	5.9 (2.33)	25.3 (3.38)	68.8 (3.78)	6.0 (2.25)	27.0 (5.65)	67.0 (5.80)	5.8 (2.36)	25.1 (3.33)	69.0 (3.76)
Utah	6.2 (1.18)	28.4 (2.52)	65.4 (2.58)	‡ (†)	‡ (†)	‡ (†)	6.3 (1.21)	28.5 (2.56)	65.2 (2.59)
Vermont	2.1 (0.22)	16.6 (0.62)	81.3 (0.63)	‡ (†)	‡ (†)	‡ (†)	2.1 (0.23)	16.6 (0.61)	81.3 (0.62)
Virginia	4.7 (1.46)	19.4 (2.35)	75.9 (2.76)	9.9 (4.99)	23.1 (5.75)	67.0 (4.01)	4.4 (1.42)	19.3 (2.38)	76.3 (2.83)
Washington	6.0 (1.59)	20.6 (2.56)	73.4 (2.51)	9.9 (4.28)	18.3 (4.19)	71.7 (4.77)	5.7 (1.54)	20.8 (2.62)	73.6 (2.60)
West Virginia	4.4 (1.50)	22.0 (2.55)	73.6 (2.74)	‡ (†)	‡ (†)	‡ (†)	4.4 (1.50)	22.0 (2.53)	73.6 (2.72)
Wisconsin	4.1 (1.23)	21.4 (3.23)	74.5 (3.36)	5.3 (3.49)	31.6 (8.11)	63.1 (8.17)	4.0 (1.25)	21.0 (3.25)	74.9 (3.40)
Wyoming	5.3 (0.55)	23.5 (0.72)	71.2 (0.86)	‡ (†)	‡ (†)	‡ (†)	5.4 (0.56)	22.9 (0.74)	71.7 (0.88)
Department of Defense Dependents Schools	# (†)	7.9 (0.53)	92.1 (0.53)	‡ (†)	‡ (†)	‡ (†)	# (†)	7.9 (0.56)	92.1 (0.56)

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-46.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, English language learner status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)											
	Years of experience of reading teacher			English language learner Years of experience of reading teacher			Not English language learner Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.7 (0.70)	22.6 (1.82)	71.7 (2.06)	4.3 (0.28)	19.0 (0.68)	76.7 (0.67)			
Large city	6.6 (1.52)	21.7 (1.62)	71.7 (2.16)	6.3 (1.51)	26.3 (3.32)	67.4 (3.49)	6.7 (1.56)	21.0 (1.69)	72.3 (2.22)			
Albuquerque	5.9 (1.25)	18.4 (1.49)	75.7 (1.83)	6.9 (3.33)	28.7 (5.73)	64.4 (6.06)	5.8 (1.12)	17.2 (1.37)	77.1 (1.72)			
Atlanta	# (†)	8.6 (0.61)	91.4 (0.61)	‡ (†)	‡ (†)	‡ (†)	# (†)	8.7 (0.62)	91.3 (0.62)			
Austin	4.5 (0.42)	38.4 (0.95)	57.1 (1.02)	2.0 (1.12)	46.4 (3.79)	51.6 (3.82)	5.0 (0.48)	36.9 (1.23)	58.1 (1.29)			
Baltimore City	9.8 (3.30)	25.1 (4.12)	65.1 (5.16)	‡ (†)	‡ (†)	‡ (†)	9.3 (3.15)	25.6 (4.22)	65.1 (5.13)			
Boston	1.1 (0.36)	21.4 (0.96)	77.5 (0.88)	1.2 (0.83)	32.5 (3.47)	66.3 (3.38)	1.0 (0.41)	18.3 (1.23)	80.6 (1.18)			
Charlotte	7.4 (0.96)	31.5 (1.80)	61.0 (2.15)	‡ (†)	‡ (†)	‡ (†)	7.5 (1.03)	31.5 (1.71)	61.0 (2.12)			
Chicago	1.8 (1.31)	29.0 (4.11)	69.2 (4.25)	5.2 (4.04)	29.7 (7.13)	65.0 (7.58)	1.5 (1.12)	29.0 (4.11)	69.5 (4.22)			
Cleveland	1.9 (0.37)	1.2 (0.27)	97.0 (0.45)	‡ (†)	‡ (†)	‡ (†)	2.0 (0.40)	1.3 (0.29)	96.7 (0.49)			
Dallas	11.2 (1.20)	47.0 (2.36)	41.8 (2.04)	10.4 (1.90)	52.5 (3.77)	37.1 (3.29)	11.6 (1.58)	43.9 (2.52)	44.5 (2.34)			
Detroit	1.4 (0.26)	9.1 (0.50)	89.5 (0.58)	# (†)	# (†)	100.0 <sup>1</sup> (†)	1.6 (0.30)	10.8 (0.59)	87.6 (0.68)			
District of Columbia (DCPS)	6.6 (0.97)	32.3 (1.45)	61.1 (1.57)	‡ (†)	‡ (†)	‡ (†)	5.5 (0.94)	33.5 (1.53)	61.0 (1.64)			
Fresno	9.6 (1.65)	18.0 (1.66)	72.4 (1.50)	8.3 (3.10)	36.4 (6.28)	55.3 (6.10)	10.0 (1.82)	13.2 (1.81)	76.8 (2.10)			
Hillsborough County (FL)	4.4 (2.67)	13.2 (2.54)	82.4 (1.94)	‡ (†)	‡ (†)	‡ (†)	4.8 (2.95)	13.0 (2.28)	82.2 (1.96)			
Houston	11.2 (1.37)	23.6 (1.60)	65.2 (2.09)	7.3 (2.75)	29.0 (4.18)	63.7 (4.31)	11.9 (1.46)	22.6 (1.55)	65.5 (2.01)			
Jefferson County (KY)	10.3 (1.09)	9.8 (0.89)	79.9 (1.61)	‡ (†)	‡ (†)	‡ (†)	10.2 (1.18)	9.7 (0.95)	80.2 (1.71)			
Los Angeles	4.3 (1.19)	8.5 (2.89)	87.2 (2.90)	0.9 (0.91)	10.6 (3.98)	88.5 (4.06)	4.7 (1.34)	8.2 (2.85)	87.1 (2.91)			
Miami-Dade	0.3 (0.26)	10.1 (3.05)	89.6 (3.05)	# (†)	11.0 (6.30)	89.0 (6.30)	0.4 (0.29)	10.0 (3.07)	89.7 (3.07)			
New York City	0.5 (0.42)	19.5 (2.54)	79.9 (2.62)	2.4 (1.67)	43.7 (8.67)	53.9 (8.76)	0.4 (0.34)	17.2 (2.20)	82.4 (2.26)			
Philadelphia	3.7 (3.07)	13.0 (5.07)	83.4 (5.68)	‡ (†)	‡ (†)	‡ (†)	3.5 (2.96)	12.6 (4.91)	83.9 (5.51)			
San Diego	1.1 (0.49)	8.7 (1.86)	90.2 (2.04)	0.8 (0.76)	13.2 (3.83)	86.0 (3.99)	1.2 (0.52)	8.0 (1.77)	90.9 (1.97)			
Duval County (FL)	6.0 (1.64)	20.5 (3.23)	73.4 (2.80)	‡ (†)	‡ (†)	‡ (†)	6.2 (1.69)	20.5 (3.23)	73.2 (2.79)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-47.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.2 (0.40)	20.9 (0.84)	73.9 (0.90)	3.5 (0.23)	17.1 (0.80)	79.4 (0.77)			
<b>Location</b>												
City	5.9 (0.91)	22.1 (1.38)	72.0 (1.61)	6.8 (1.10)	23.5 (1.29)	69.7 (1.66)	4.5 (0.74)	19.6 (2.09)	75.9 (2.23)			
Suburban	3.5 (0.34)	16.8 (0.95)	79.7 (0.94)	4.2 (0.46)	17.5 (1.50)	78.3 (1.54)	3.0 (0.35)	15.6 (0.89)	81.4 (0.88)			
Town	3.9 (0.65)	19.8 (2.08)	76.3 (2.09)	4.3 (0.69)	21.7 (2.71)	74.0 (2.67)	3.3 (0.79)	17.7 (2.34)	78.9 (2.33)			
Rural	4.4 (0.70)	19.6 (1.15)	76.0 (1.29)	5.0 (1.01)	21.8 (1.68)	73.1 (1.67)	3.7 (0.52)	17.3 (1.08)	78.9 (1.27)			
<b>Minority enrollment</b>												
75 percent or more	6.2 (0.97)	24.1 (1.58)	69.7 (1.76)	6.3 (0.93)	24.4 (1.62)	69.3 (1.80)	5.8 (1.45)	22.0 (2.61)	72.3 (2.91)			
Less than 75 percent	3.8 (0.30)	17.5 (0.69)	78.7 (0.69)	4.5 (0.44)	18.6 (0.82)	77.0 (0.91)	3.3 (0.24)	16.6 (0.79)	80.2 (0.75)			

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-48.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and state: 2015

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible Years of experience of reading teacher			National School Lunch Program, not eligible Years of experience of reading teacher					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.2 (0.40)	20.9 (0.84)	73.9 (0.90)	3.5 (0.23)	17.1 (0.80)	79.4 (0.77)			
Alabama	5.5 (2.06)	16.8 (2.57)	77.7 (3.34)	6.9 (2.45)	18.3 (3.15)	74.8 (3.85)	3.8 (1.73)	14.9 (2.79)	81.3 (3.35)			
Alaska	5.0 (0.84)	19.7 (1.58)	75.4 (1.74)	4.6 (1.24)	27.5 (2.73)	67.8 (2.93)	4.9 (0.82)	13.0 (1.42)	82.1 (1.64)			
Arizona	9.6 (2.37)	20.4 (2.87)	70.0 (3.37)	9.6 (2.87)	22.8 (4.01)	67.6 (4.57)	9.9 (2.90)	15.6 (2.26)	74.4 (3.38)			
Arkansas	7.2 (1.57)	20.6 (2.43)	72.2 (3.23)	7.1 (1.74)	19.8 (2.68)	73.1 (3.10)	7.2 (2.23)	21.8 (2.76)	71.1 (4.18)			
California	2.6 (0.85)	16.6 (2.66)	80.8 (2.81)	3.1 (1.01)	17.8 (3.18)	79.1 (3.47)	2.0 (0.87)	13.5 (4.13)	84.5 (4.18)			
Colorado	9.0 (2.22)	21.0 (3.13)	70.0 (3.35)	11.0 (3.07)	22.2 (4.00)	66.8 (4.25)	7.9 (2.26)	19.8 (3.42)	72.3 (3.83)			
Connecticut	5.0 (1.49)	20.9 (2.94)	74.1 (3.31)	5.5 (1.67)	26.8 (3.74)	67.6 (4.02)	4.8 (1.71)	17.8 (3.19)	77.4 (3.68)			
Delaware	5.6 (0.40)	22.1 (0.73)	72.4 (0.82)	5.9 (0.80)	25.8 (1.31)	68.3 (1.50)	5.3 (0.68)	19.3 (0.95)	75.4 (1.05)			
District of Columbia	4.4 (0.47)	34.2 (0.90)	61.4 (0.93)	5.7 (0.60)	31.2 (1.13)	63.1 (1.05)	# (†)	44.7 (2.24)	55.3 (2.24)			
Florida	6.2 (1.78)	21.1 (2.47)	72.7 (3.14)	6.9 (2.13)	22.7 (2.72)	70.4 (3.58)	4.9 (1.92)	18.5 (3.06)	76.6 (3.76)			
Georgia	3.8 (1.10)	15.5 (2.06)	80.7 (2.28)	4.4 (1.39)	15.1 (2.30)	80.5 (2.53)	3.6 (1.50)	14.0 (3.38)	82.4 (3.71)			
Hawaii	7.5 (0.79)	21.4 (1.08)	71.1 (1.12)	9.2 (1.49)	22.4 (1.57)	68.5 (1.94)	5.8 (0.68)	20.4 (1.25)	73.8 (1.14)			
Idaho	4.0 (0.74)	21.4 (1.88)	74.6 (1.78)	5.4 (0.95)	22.5 (2.16)	72.1 (2.30)	2.9 (0.87)	20.5 (2.12)	76.6 (1.98)			
Illinois	3.8 (1.64)	12.7 (1.82)	83.5 (2.37)	4.2 (1.57)	17.5 (2.08)	78.3 (2.55)	3.5 (1.96)	8.2 (2.21)	88.3 (2.82)			
Indiana	6.6 (1.78)	21.2 (3.26)	72.2 (3.58)	6.6 (2.08)	21.0 (4.17)	72.4 (4.44)	6.6 (2.11)	21.5 (3.76)	71.9 (4.01)			
Iowa	5.6 (1.58)	17.5 (2.37)	76.9 (2.52)	5.0 (1.69)	16.9 (3.03)	78.0 (3.22)	5.9 (1.69)	17.9 (2.83)	76.3 (3.08)			

See notes at end of table.

**TABLE B-48.** Percentage of 8th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and state: 2015—Continued

State	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
Kansas	4.1 (1.02)	27.7 (3.18)	68.2 (3.32)	4.1 (1.46)	29.5 (3.16)	66.5 (3.45)	4.0 (0.95)	26.1 (3.95)	69.8 (4.01)			
Kentucky	6.4 (1.28)	19.5 (2.52)	74.0 (2.79)	6.8 (1.40)	22.0 (2.95)	71.2 (3.11)	6.0 (1.39)	16.5 (2.54)	77.6 (2.90)			
Louisiana	11.0 (3.11)	16.4 (2.88)	72.6 (3.64)	12.8 (3.83)	17.6 (3.62)	69.5 (4.31)	8.0 (2.65)	14.3 (2.76)	77.8 (3.53)			
Maine	3.4 (0.75)	13.0 (1.52)	83.5 (1.72)	3.6 (0.95)	13.7 (1.90)	82.7 (2.19)	3.4 (0.79)	12.5 (1.59)	84.1 (1.77)			
Maryland	5.4 (1.22)	11.4 (1.53)	83.3 (1.76)	7.0 (1.73)	13.4 (1.93)	79.7 (2.19)	4.3 (1.00)	9.9 (1.96)	85.8 (2.09)			
Massachusetts	3.2 (1.28)	21.9 (2.71)	75.0 (3.03)	3.3 (1.60)	22.8 (3.22)	73.9 (3.40)	3.1 (1.36)	21.1 (3.38)	75.8 (3.83)			
Michigan	0.1 (0.07)	18.2 (3.60)	81.7 (3.59)	0.2 (0.12)	23.2 (5.45)	76.6 (5.44)	0.1 (0.09)	14.1 (3.08)	85.8 (3.09)			
Minnesota	4.1 (1.14)	18.8 (2.72)	77.1 (2.81)	5.7 (2.09)	24.5 (3.66)	69.8 (4.01)	3.2 (0.97)	16.0 (2.80)	80.8 (2.86)			
Mississippi	10.9 (2.37)	24.2 (3.30)	64.9 (3.49)	12.3 (2.94)	26.6 (4.24)	61.0 (4.09)	7.4 (2.07)	19.1 (2.96)	73.5 (3.66)			
Missouri	6.6 (1.74)	17.8 (2.87)	75.6 (3.08)	7.3 (2.49)	18.7 (3.65)	74.0 (3.74)	6.0 (1.65)	17.0 (3.17)	77.0 (3.55)			
Montana	4.7 (0.72)	15.9 (1.30)	79.4 (1.38)	5.4 (1.31)	14.0 (1.30)	80.6 (1.67)	4.2 (0.78)	17.3 (1.77)	78.5 (1.87)			
Nebraska	3.1 (0.72)	17.9 (2.05)	79.0 (2.17)	4.7 (0.88)	18.1 (2.37)	77.2 (2.48)	1.9 (0.75)	17.8 (2.29)	80.3 (2.41)			
Nevada	6.7 (1.02)	20.0 (1.19)	73.3 (1.35)	9.0 (1.40)	24.8 (1.49)	66.1 (1.92)	4.1 (0.83)	14.5 (1.46)	81.4 (1.37)			
New Hampshire	1.8 (0.42)	9.0 (1.45)	89.3 (1.51)	1.3 (0.61)	7.6 (1.70)	91.1 (1.94)	2.0 (0.48)	9.8 (1.50)	88.2 (1.54)			
New Jersey	1.1 (0.46)	18.1 (3.01)	80.8 (3.12)	1.4 (0.73)	14.3 (3.22)	84.3 (3.29)	1.0 (0.50)	19.0 (3.41)	80.0 (3.51)			
New Mexico	5.1 (1.24)	18.3 (1.48)	76.6 (1.94)	5.5 (1.06)	19.0 (1.78)	75.4 (2.07)	4.3 (1.98)	17.3 (2.13)	78.4 (2.92)			
New York	0.7 (0.50)	16.8 (3.16)	82.5 (3.16)	1.0 (0.69)	19.6 (3.81)	79.4 (3.79)	# (†)	13.7 (3.08)	86.3 (3.08)			
North Carolina	3.9 (1.36)	25.0 (3.23)	71.0 (3.40)	5.5 (2.09)	26.1 (3.65)	68.5 (3.94)	1.9 (0.84)	23.5 (3.64)	74.6 (3.69)			
North Dakota	8.3 (0.44)	24.8 (0.74)	66.9 (0.83)	7.0 (0.96)	19.8 (1.37)	73.2 (1.47)	8.8 (0.57)	27.0 (0.84)	64.2 (0.97)			
Ohio	0.8 (0.38)	13.5 (2.01)	85.7 (2.02)	0.8 (0.37)	15.9 (2.85)	83.3 (2.79)	0.8 (0.49)	11.5 (1.93)	87.7 (1.99)			
Oklahoma	1.2 (0.73)	19.4 (3.05)	79.4 (3.09)	1.4 (0.88)	19.4 (3.70)	79.3 (3.74)	0.9 (0.57)	19.4 (3.24)	79.7 (3.26)			
Oregon	1.8 (0.83)	19.3 (2.95)	78.9 (2.86)	1.8 (0.84)	20.3 (3.63)	77.9 (3.60)	1.7 (0.85)	18.1 (2.94)	80.1 (2.82)			
Pennsylvania	2.5 (1.43)	17.2 (2.84)	80.3 (2.90)	2.4 (1.29)	23.3 (4.32)	74.3 (4.52)	2.6 (1.65)	12.2 (3.14)	85.2 (3.00)			
Rhode Island	0.9 (0.20)	15.7 (0.63)	83.4 (0.69)	0.7 (0.30)	18.1 (1.11)	81.2 (1.18)	1.1 (0.32)	13.8 (0.90)	85.1 (0.93)			
South Carolina	4.9 (1.36)	17.8 (2.41)	77.3 (2.52)	7.3 (2.07)	18.4 (2.94)	74.3 (3.02)	1.9 (0.68)	17.1 (2.62)	81.0 (2.66)			
South Dakota	4.0 (0.67)	21.2 (1.46)	74.8 (1.52)	4.8 (1.06)	22.6 (1.75)	72.6 (1.89)	3.6 (0.72)	20.2 (1.72)	76.2 (1.75)			
Tennessee	7.2 (1.95)	15.2 (2.62)	77.6 (3.24)	7.8 (2.25)	17.2 (3.62)	75.0 (4.01)	6.7 (2.19)	12.9 (2.39)	80.4 (3.38)			
Texas	5.9 (2.33)	25.3 (3.38)	68.8 (3.78)	7.3 (3.01)	26.1 (4.12)	66.6 (4.62)	4.0 (1.58)	24.1 (3.69)	71.9 (3.89)			
Utah	6.2 (1.18)	28.4 (2.52)	65.4 (2.58)	6.1 (1.26)	27.2 (2.66)	66.7 (2.81)	6.3 (1.34)	28.9 (3.00)	64.8 (3.07)			
Vermont	2.1 (0.22)	16.6 (0.62)	81.3 (0.63)	2.7 (0.65)	17.8 (1.35)	79.5 (1.41)	1.7 (0.34)	15.9 (0.91)	82.4 (0.97)			
Virginia	4.7 (1.46)	19.4 (2.35)	75.9 (2.76)	5.8 (2.18)	23.4 (3.14)	70.8 (3.55)	4.0 (1.26)	17.0 (2.34)	79.1 (2.79)			
Washington	6.0 (1.59)	20.6 (2.56)	73.4 (2.51)	7.4 (2.41)	19.5 (2.68)	73.1 (2.94)	4.6 (1.54)	21.5 (3.36)	73.8 (3.40)			
West Virginia	4.4 (1.50)	22.0 (2.55)	73.6 (2.74)	2.7 (1.04)	21.7 (3.07)	75.5 (3.25)	7.2 (2.50)	22.5 (3.13)	70.3 (3.33)			
Wisconsin	4.1 (1.23)	21.4 (3.23)	74.5 (3.36)	6.1 (2.25)	18.6 (3.38)	75.3 (3.81)	3.8 (1.25)	21.9 (4.16)	74.3 (4.25)			
Wyoming	5.3 (0.55)	23.5 (0.72)	71.2 (0.86)	5.2 (0.97)	28.1 (1.49)	66.7 (1.51)	5.3 (0.66)	21.0 (0.87)	73.7 (1.00)			
Department of Defense Dependents Schools	# (†)	7.9 (0.53)	92.1 (0.53)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)	‡ (†)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

TABLE B-49. Percentage of 8th-grade public school students, by years of experience of their reading teacher, National School Lunch Program status, and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)											
	Years of experience of reading teacher			National School Lunch Program, eligible			National School Lunch Program, not eligible					
	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5	Less than 1	1-5	More than 5			
<b>Nation (public)</b>	4.4 (0.29)	19.2 (0.69)	76.4 (0.69)	5.2 (0.40)	20.9 (0.84)	73.9 (0.90)	3.5 (0.23)	17.1 (0.80)	79.4 (0.77)			
Large city	6.6 (1.52)	21.7 (1.62)	71.7 (2.16)	7.3 (1.70)	23.5 (1.66)	69.2 (2.26)	4.9 (1.29)	17.8 (3.11)	77.3 (3.42)			
Albuquerque	5.9 (1.25)	18.4 (1.49)	75.7 (1.83)	8.4 (1.81)	19.9 (2.04)	71.7 (2.57)	1.9 (0.91)	16.2 (1.92)	81.8 (2.20)			
Atlanta	# (†)	8.6 (0.61)	91.4 (0.61)	# (†)	8.4 (0.65)	91.6 (0.65)	# (†)	10.1 (1.99)	89.9 (1.99)			
Austin	4.5 (0.42)	38.4 (0.95)	57.1 (1.02)	4.5 (0.76)	46.1 (1.57)	49.3 (1.65)	4.2 (0.91)	28.3 (1.87)	67.5 (1.97)			
Baltimore City	9.8 (3.30)	25.1 (4.12)	65.1 (5.16)	9.9 (3.48)	27.9 (4.36)	62.2 (5.52)	8.4 (3.24)	15.0 (4.36)	76.6 (4.92)			
Boston	1.1 (0.36)	21.4 (0.96)	77.5 (0.88)	1.1 (0.36)	21.4 (0.96)	77.5 (0.88)	‡ (†)	‡ (†)	‡ (†)			
Charlotte	7.4 (0.96)	31.5 (1.80)	61.0 (2.15)	12.4 (1.68)	30.7 (2.37)	57.0 (3.00)	0.9 (0.44)	32.3 (2.74)	66.8 (2.77)			
Chicago	1.8 (1.31)	29.0 (4.11)	69.2 (4.25)	2.0 (1.43)	31.1 (4.33)	67.0 (4.48)	0.6 (0.58)	15.2 (5.80)	84.2 (5.84)			
Cleveland	1.9 (0.37)	1.2 (0.27)	97.0 (0.45)	1.9 (0.37)	1.2 (0.27)	97.0 (0.45)	‡ (†)	‡ (†)	‡ (†)			
Dallas	11.2 (1.20)	47.0 (2.36)	41.8 (2.04)	11.2 (1.28)	47.2 (2.56)	41.6 (2.19)	11.3 (3.11)	44.8 (5.86)	43.9 (5.76)			
Detroit	1.4 (0.26)	9.1 (0.50)	89.5 (0.58)	1.9 (0.36)	7.5 (0.75)	90.7 (0.78)	# (†)	13.9 (1.64)	86.1 (1.64)			
District of Columbia (DCPS)	6.6 (0.97)	32.3 (1.45)	61.1 (1.57)	7.9 (1.15)	30.1 (1.64)	62.0 (1.70)	# (†)	43.5 (4.18)	56.5 (4.18)			
Fresno	9.6 (1.65)	18.0 (1.66)	72.4 (1.50)	10.8 (1.81)	20.1 (1.90)	69.2 (1.66)	‡ (†)	‡ (†)	‡ (†)			
Hillsborough County (FL)	4.4 (2.67)	13.2 (2.54)	82.4 (1.94)	6.8 (4.09)	15.2 (3.89)	78.1 (2.85)	0.9 (0.80)	10.3 (1.75)	88.8 (1.82)			
Houston	11.2 (1.37)	23.6 (1.60)	65.2 (2.09)	11.8 (1.54)	24.8 (1.71)	63.4 (2.21)	9.4 (2.15)	19.6 (2.49)	71.0 (3.11)			
Jefferson County (KY)	10.3 (1.09)	9.8 (0.89)	79.9 (1.61)	11.7 (1.28)	11.5 (1.24)	76.8 (1.95)	8.0 (1.54)	7.0 (1.21)	85.0 (2.13)			
Los Angeles	4.3 (1.19)	8.5 (2.89)	87.2 (2.90)	4.6 (1.14)	9.3 (3.08)	86.1 (3.04)	1.9 (2.01)	4.3 (4.11)	93.7 (4.34)			
Miami-Dade	0.3 (0.26)	10.1 (3.05)	89.6 (3.05)	0.4 (0.34)	10.2 (3.13)	89.3 (3.14)	# (†)	9.6 (4.76)	90.4 (4.76)			
New York City	0.5 (0.42)	19.5 (2.54)	79.9 (2.62)	0.7 (0.55)	21.1 (3.06)	78.2 (3.17)	# (†)	14.3 (2.54)	85.7 (2.54)			
Philadelphia	3.7 (3.07)	13.0 (5.07)	83.4 (5.68)	2.9 (2.42)	15.9 (6.22)	81.3 (6.48)	4.9 (4.11)	8.8 (4.09)	86.3 (5.67)			
San Diego	1.1 (0.49)	8.7 (1.86)	90.2 (2.04)	1.8 (0.83)	9.4 (2.43)	88.7 (2.77)	# (†)	7.7 (1.59)	92.3 (1.59)			
Duval County (FL)	6.0 (1.64)	20.5 (3.23)	73.4 (2.80)	8.4 (2.54)	21.5 (3.65)	70.1 (2.90)	4.6 (1.31)	20.0 (3.65)	75.5 (3.25)			

† Not applicable.

# Rounds to zero.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Excluding student teaching, how many years have you worked as an elementary or secondary teacher, counting this year?" There were 6 options to choose from: "Less than 1 year," "1-2 years," "3-5 years," "6-10 years," "11-20 years," and "21 or more years." For this report, options were combined into the categories: "Less than 1 year experience," "1-5 years," and "More than 5 years."

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-50.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and selected school characteristics: 2015

(Standard errors in parentheses)													
School characteristic	Total	Race/ethnicity											
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native	Two or more races					
<b>Nation (public)</b>	82.4 (0.57)	84.8 (0.56)	77.7 (1.06)	80.1 (1.29)	84.5 (1.53)	83.4 (3.42)	78.6 (2.14)	81.2 (1.37)					
<b>Location</b>													
City	80.9 (0.94)	83.9 (1.08)	75.6 (1.66)	81.5 (1.80)	80.0 (2.56)	79.9 (7.42)	85.6 (3.26)	83.8 (2.56)					
Suburban	83.6 (0.98)	85.7 (1.02)	80.4 (1.56)	79.9 (1.84)	87.7 (1.94)	88.7 (2.91)	74.8 (5.27)	81.9 (1.79)					
Town	83.5 (1.74)	85.3 (1.33)	76.7 (3.13)	82.1 (5.98)	79.2 (5.35)	86.1 (3.70)	79.2 (4.28)	78.5 (4.71)					
Rural	81.5 (1.25)	83.5 (1.14)	77.5 (2.42)	72.4 (4.41)	89.3 (2.88)	74.1 (12.81)	75.8 (3.44)	77.0 (4.27)					
<b>Minority enrollment</b>													
75 percent or more	78.7 (1.52)	79.6 (2.28)	76.9 (1.71)	79.3 (2.13)	81.2 (3.09)	80.0 (5.35)	75.6 (4.07)	76.2 (3.67)					
Less than 75 percent	83.7 (0.56)	85.0 (0.56)	78.5 (0.98)	81.1 (1.11)	86.2 (1.80)	86.6 (4.08)	79.8 (2.36)	81.9 (1.40)					

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-51.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and state: 2015

(Standard errors in parentheses)													
State	Total	Race/ethnicity											
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native	Two or more races					
<b>Nation (public)</b>	82.4 (0.57)	84.8 (0.56)	77.7 (1.06)	80.1 (1.29)	84.5 (1.53)	83.4 (3.42)	78.6 (2.14)	81.2 (1.37)					
Alabama	82.9 (3.08)	84.8 (3.39)	79.3 (5.31)	79.6 (6.88)	† (†)	† (†)	† (†)	† (†)					
Alaska	74.9 (1.46)	78.0 (1.70)	† (†)	75.3 (4.95)	65.4 (4.09)	† (†)	72.7 (3.62)	76.2 (3.99)					
Arizona	64.6 (3.51)	65.3 (4.79)	60.9 (7.73)	63.5 (4.22)	† (†)	† (†)	67.8 (10.86)	† (†)					
Arkansas	72.0 (2.59)	72.6 (3.09)	70.8 (4.41)	69.5 (4.11)	† (†)	† (†)	† (†)	† (†)					
California	81.5 (2.85)	80.7 (4.02)	80.5 (7.26)	83.2 (3.24)	76.6 (4.37)	† (†)	† (†)	76.6 (9.45)					
Colorado	87.9 (1.99)	87.6 (2.60)	90.5 (3.97)	87.9 (2.18)	87.9 (5.41)	† (†)	† (†)	86.0 (5.34)					
Connecticut	92.0 (1.55)	93.0 (1.81)	90.2 (2.80)	90.3 (2.07)	94.8 (2.67)	† (†)	† (†)	† (†)					
Delaware	74.6 (0.71)	75.9 (1.26)	72.3 (1.58)	71.8 (3.00)	87.7 (4.05)	† (†)	† (†)	† (†)					
District of Columbia	77.6 (0.84)	78.8 (3.23)	76.2 (1.03)	80.6 (2.61)	† (†)	† (†)	† (†)	† (†)					
Florida	69.6 (2.44)	72.0 (2.93)	68.4 (3.25)	65.9 (3.28)	83.3 (3.74)	† (†)	† (†)	66.9 (5.68)					
Georgia	79.4 (2.15)	79.8 (2.49)	79.0 (3.10)	76.8 (3.90)	86.8 (4.68)	† (†)	† (†)	80.1 (5.02)					
Hawaii	82.9 (0.87)	75.3 (2.73)	† (†)	83.7 (3.81)	83.8 (1.38)	82.9 (1.98)	† (†)	87.8 (2.81)					
Idaho	87.2 (1.62)	87.8 (1.74)	† (†)	83.8 (2.93)	† (†)	† (†)	† (†)	† (†)					
Illinois	92.7 (1.38)	94.2 (1.81)	85.8 (2.93)	92.8 (1.89)	93.9 (5.41)	† (†)	† (†)	† (†)					
Indiana	89.8 (2.03)	91.0 (2.14)	80.2 (8.29)	88.7 (3.29)	† (†)	† (†)	† (†)	93.2 (3.01)					

See notes at end of table.

**TABLE B-51.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and state: 2015—Continued

(Standard errors in parentheses)															
State	Total	Race/ethnicity										Two or more races			
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native								
Iowa	93.5 (1.48)	93.4 (1.64)	90.5 (3.18)	94.5 (2.06)	95.3 (3.59)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Kansas	83.0 (2.44)	82.2 (2.83)	87.3 (3.74)	83.5 (3.33)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	84.5 (4.88)	† (†)		
Kentucky	92.5 (1.79)	92.1 (2.17)	92.6 (1.17)	98.8 (0.55)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	91.9 (3.63)	† (†)		
Louisiana	61.9 (4.00)	66.1 (4.22)	58.2 (5.50)	59.9 (8.13)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Maine	78.7 (1.72)	78.8 (1.82)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Maryland	78.7 (2.60)	82.9 (2.69)	74.2 (4.61)	71.0 (4.87)	84.4 (4.54)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	76.8 (6.07)	† (†)		
Massachusetts	84.4 (2.61)	87.0 (2.85)	72.5 (5.35)	82.5 (4.29)	81.3 (4.16)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Michigan	97.7 (0.74)	98.6 (0.51)	94.7 (2.74)	98.5 (1.12)	100.0 <sup>1</sup> (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Minnesota	98.2 (0.76)	98.1 (0.85)	98.0 (1.21)	99.2 (0.81)	100.0 <sup>1</sup> (†)	† (†)	† (†)	† (†)	† (†)	87.3 (6.95) <sup>1</sup>	† (†)	† (†)	† (†)		
Mississippi	80.1 (2.68)	76.6 (2.92)	83.5 (3.66)	76.2 (7.25)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Missouri	85.9 (2.28)	86.4 (2.46)	83.6 (6.16)	81.6 (4.73)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Montana	77.0 (1.15)	77.9 (1.16)	† (†)	81.3 (4.23)	† (†)	† (†)	† (†)	† (†)	† (†)	69.6 (4.03)	† (†)	† (†)	† (†)		
Nebraska	92.8 (1.77)	92.2 (2.02)	97.8 (1.21)	94.6 (2.10)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	97.2 (1.93)	† (†)		
Nevada	80.1 (1.69)	76.5 (2.58)	76.5 (5.72)	83.2 (1.59)	87.3 (3.15)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	76.5 (3.67)	† (†)		
New Hampshire	91.8 (1.19)	91.9 (1.26)	† (†)	94.8 (2.50)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
New Jersey	83.2 (2.42)	87.9 (2.27)	76.4 (6.15)	73.5 (5.15)	89.0 (3.18)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
New Mexico	86.7 (1.55)	89.7 (1.98)	† (†)	86.2 (1.55)	† (†)	† (†)	† (†)	† (†)	† (†)	83.0 (6.23)	† (†)	† (†)	† (†)		
New York	88.1 (2.05)	94.2 (2.02)	73.9 (6.79)	82.6 (2.63)	96.8 (1.78)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
North Carolina	83.1 (2.02)	81.4 (2.68)	82.8 (2.20)	89.1 (2.13)	93.6 (2.48)	† (†)	† (†)	† (†)	† (†)	78.8 (5.57)	76.4 (6.13)	† (†)	† (†)		
North Dakota	90.8 (0.45)	91.8 (0.52)	83.2 (4.33)	95.8 (2.34)	† (†)	† (†)	† (†)	† (†)	† (†)	84.3 (1.87)	† (†)	† (†)	† (†)		
Ohio	91.1 (2.28)	91.7 (2.39)	86.4 (5.39)	89.2 (4.69)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	92.3 (3.22)	† (†)		
Oklahoma	67.3 (2.74)	67.8 (3.42)	53.9 (7.27)	64.8 (4.81)	† (†)	† (†)	† (†)	† (†)	† (†)	72.0 (4.57)	70.2 (5.40)	† (†)	† (†)		
Oregon	82.9 (2.53)	84.3 (2.70)	† (†)	80.0 (3.63)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	82.8 (4.58)	† (†)		
Pennsylvania	87.9 (1.47)	89.9 (1.64)	85.2 (4.01)	76.6 (5.66)	84.7 (6.29)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	82.5 (5.40)	† (†)		
Rhode Island	93.8 (0.57)	96.4 (0.54)	89.3 (2.67)	86.3 (1.74)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
South Carolina	80.2 (2.61)	80.1 (2.83)	79.0 (3.82)	87.6 (3.63)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
South Dakota	84.5 (1.69)	86.0 (1.65)	† (†)	83.0 (4.39)	† (†)	† (†)	† (†)	† (†)	† (†)	76.2 (4.24)	† (†)	† (†)	† (†)		
Tennessee	64.6 (3.67)	65.5 (3.64)	59.8 (6.88)	66.1 (6.36)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Texas	73.7 (3.11)	69.3 (4.82)	70.8 (4.57)	77.0 (3.51)	77.2 (5.91)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	61.6 (10.96)	† (†)		
Utah	95.0 (0.86)	95.6 (0.88)	† (†)	91.2 (2.49)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Vermont	90.3 (0.53)	90.3 (0.59)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Virginia	86.0 (2.09)	88.6 (2.30)	78.6 (4.47)	83.7 (3.70)	92.6 (2.55)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	86.0 (4.00)	† (†)		
Washington	80.3 (2.65)	80.0 (3.29)	74.3 (7.15)	81.0 (2.65)	83.3 (4.44)	† (†)	† (†)	† (†)	† (†)	87.7 (5.36)	80.8 (4.53)	† (†)	† (†)		
West Virginia	92.7 (1.49)	93.1 (1.49)	89.6 (3.59)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)	† (†)		
Wisconsin	87.3 (1.91)	88.6 (2.05)	72.5 (6.10)	91.3 (2.72)	† (†)	† (†)	† (†)	† (†)	† (†)	95.8 (2.28)	† (†)	† (†)	† (†)		

See notes at end of table.

**TABLE B-51.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and state: 2015—Continued

(Standard errors in parentheses)																
State	Total		Race/ethnicity													
			White		Black		Hispanic		Asian		Pacific Islander		American Indian/ Alaska Native		Two or more races	
Wyoming	94.9	(0.43)	95.2	(0.47)	‡	(†)	91.3	(1.64)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Department of Defense Dependents Schools	95.5	(0.44)	94.9	(1.04)	95.7	(1.51)	96.4	(1.23)	97.2	(1.47)	‡	(†)	‡	(†)	94.8	(1.65)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessments.

**TABLE B-52.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and jurisdiction: 2015

(Standard errors in parentheses)																
Jurisdiction	Total		Race/ethnicity													
			White		Black		Hispanic		Asian		Pacific Islander		American Indian/ Alaska Native		Two or more races	
<b>Nation (public)</b>	<b>82.4</b>	<b>(0.57)</b>	<b>84.8</b>	<b>(0.56)</b>	<b>77.7</b>	<b>(1.06)</b>	<b>80.1</b>	<b>(1.29)</b>	<b>84.5</b>	<b>(1.53)</b>	<b>83.4</b>	<b>(3.42)</b>	<b>78.6</b>	<b>(2.14)</b>	<b>81.2</b>	<b>(1.37)</b>
Large city	79.8	(1.42)	81.1	(1.43)	75.7	(2.13)	80.1	(2.41)	87.3	(3.10)	76.8	(10.42)	84.1	(4.71)	83.4	(2.87)
Albuquerque	79.3	(1.38)	81.1	(2.90)	‡	(†)	78.0	(1.58)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Atlanta	76.8	(0.97)	70.7	(4.47)	77.9	(0.96)	79.2	(4.14)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Austin	69.2	(1.32)	80.5	(2.41)	74.4	(5.10)	62.9	(1.89)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Baltimore City	71.5	(4.20)	94.1	(4.27)	65.4	(4.96)	100.0 <sup>1</sup>	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Boston	83.7	(0.65)	92.1	(2.43)	75.1	(2.22)	87.0	(1.62)	88.0	(2.43)	‡	(†)	‡	(†)	‡	(†)
Charlotte	81.0	(1.78)	81.3	(2.30)	77.7	(2.94)	84.7	(2.50)	87.9	(3.67)	‡	(†)	‡	(†)	‡	(†)
Chicago	88.2	(2.79)	98.2	(1.67)	82.4	(4.77)	90.8	(3.15)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Cleveland	72.2	(1.13)	81.4	(3.42)	70.3	(1.99)	71.3	(3.32)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Dallas	74.1	(1.45)	‡	(†)	74.7	(3.36)	76.4	(1.91)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Detroit	91.6	(0.62)	‡	(†)	90.3	(0.76)	98.1	(1.33)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
District of Columbia (DCPS)	75.7	(1.39)	81.5	(3.63)	73.3	(1.73)	77.3	(3.51)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Fresno	89.7	(1.21)	87.2	(3.96)	‡	(†)	92.0	(1.52)	88.1	(2.77)	‡	(†)	‡	(†)	‡	(†)
Hillsborough County (FL)	60.6	(2.86)	64.2	(3.64)	56.9	(6.01)	56.9	(4.46)	‡	(†)	‡	(†)	‡	(†)	‡	(†)

See notes at end of table.

**TABLE B-52.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by race/ethnicity and jurisdiction: 2015—Continued

(Standard errors in parentheses)														
Jurisdiction	Total		Race/ethnicity								Two or more races			
			White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native						
Houston	74.6	(1.99)	85.5	(4.11)	60.7	(4.84)	77.7	(1.54)	91.0	(3.92)	†	(†)	†	(†)
Jefferson County (KY)	90.5	(0.72)	90.7	(0.96)	89.8	(1.62)	94.7	(2.38)	‡	(†)	‡	(†)	‡	(†)
Los Angeles	82.4	(3.67)	84.3	(4.52)	76.7	(8.09)	82.6	(3.67)	81.7	(6.73)	‡	(†)	‡	(†)
Miami-Dade	69.0	(3.26)	54.7	(9.48)	67.3	(7.69)	71.3	(3.37)	‡	(†)	‡	(†)	‡	(†)
New York City	89.9	(2.05)	91.3	(4.62)	86.5	(3.51)	88.0	(2.67)	97.2	(1.17)	‡	(†)	‡	(†)
Philadelphia	64.1	(4.35)	71.3	(3.91)	64.3	(8.02)	48.1	(7.43)	74.8	(5.37)	‡	(†)	‡	(†)
San Diego	86.8	(1.66)	88.3	(2.60)	‡	(†)	86.6	(2.24)	87.0	(3.02)	‡	(†)	‡	(†)
Duval County (FL)	60.2	(2.42)	57.9	(3.04)	59.7	(2.62)	61.6	(6.89)	‡	(†)	‡	(†)	‡	(†)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

¹ Rounds to 100 percent.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-53.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by disability status and selected school characteristics: 2015

(Standard errors in parentheses)						
School characteristic	Total	Disability status		Total	Disability status	
		With a disability	Without a disability		With a disability	Without a disability
<b>Nation (public)</b>	82.4	(0.57)	73.5	(0.90)	83.6	(0.60)
<b>Location</b>						
City	80.9	(0.94)	72.7	(1.44)	82.0	(0.98)
Suburban	83.6	(0.98)	74.5	(1.46)	84.8	(0.99)
Town	83.5	(1.74)	72.2	(2.82)	85.0	(1.72)
Rural	81.5	(1.25)	73.5	(2.06)	82.6	(1.29)
<b>Minority enrollment</b>						
75 percent or more	78.7	(1.52)	71.3	(2.00)	79.6	(1.55)
Less than 75 percent	83.7	(0.56)	74.3	(0.87)	85.0	(0.60)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-54.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by disability status and state: 2015

(Standard errors in parentheses)						
State	Total	Disability status		Total	Disability status	
		With a disability	Without a disability		With a disability	Without a disability
<b>Nation (public)</b>	82.4	(0.57)	73.5	(0.90)	83.6	(0.60)
Alabama	82.9	(3.08)	83.0	(5.05)	82.9	(3.07)
Alaska	74.9	(1.46)	62.6	(4.03)	76.8	(1.50)
Arizona	64.6	(3.51)	51.4	(4.80)	65.9	(3.58)
Arkansas	72.0	(2.59)	59.4	(3.63)	73.3	(2.64)
California	81.5	(2.85)	68.5	(4.83)	82.8	(2.87)
Colorado	87.9	(1.99)	80.2	(3.78)	88.7	(1.96)
Connecticut	92.0	(1.55)	88.1	(2.73)	92.7	(1.54)
Delaware	74.6	(0.71)	65.3	(2.42)	76.3	(0.74)
District of Columbia	77.6	(0.84)	71.6	(3.32)	78.7	(0.98)
Florida	69.6	(2.44)	64.0	(4.79)	70.4	(2.42)
Georgia	79.4	(2.15)	68.7	(4.50)	80.7	(2.26)
Hawaii	82.9	(0.87)	55.0	(4.55)	85.7	(0.82)
Idaho	87.2	(1.62)	78.5	(3.44)	88.2	(1.68)
Illinois	92.7	(1.38)	76.6	(3.81)	94.8	(1.42)
Indiana	89.8	(2.03)	88.1	(2.21)	90.1	(2.22)
Iowa	93.5	(1.48)	80.2	(3.80)	95.2	(1.36)
Kansas	83.0	(2.44)	70.9	(4.10)	84.5	(2.37)
Kentucky	92.5	(1.79)	81.7	(3.45)	93.9	(1.76)
Louisiana	61.9	(4.00)	58.9	(4.91)	62.5	(4.07)
Maine	78.7	(1.72)	67.8	(2.81)	80.7	(1.98)
Maryland	78.7	(2.60)	73.5	(4.11)	79.5	(2.60)
Massachusetts	84.4	(2.61)	76.5	(3.32)	86.0	(2.70)
Michigan	97.7	(0.74)	89.5	(3.18)	98.6	(0.58)
Minnesota	98.2	(0.76)	93.1	(2.06)	98.8	(0.79)
Mississippi	80.1	(2.68)	72.4	(5.23)	80.9	(2.66)

See notes at end of table.

**TABLE B-54.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by disability status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	Disability status				
		With a disability	Without a disability			
Missouri	85.9	(2.28)	69.1	(4.28)	88.1	(2.28)
Montana	77.0	(1.15)	54.0	(3.83)	79.7	(1.14)
Nebraska	92.8	(1.77)	90.4	(2.57)	93.2	(1.81)
Nevada	80.1	(1.69)	61.7	(4.58)	81.9	(1.67)
New Hampshire	91.8	(1.19)	91.4	(2.37)	91.8	(1.17)
New Jersey	83.2	(2.42)	77.9	(3.61)	84.2	(2.50)
New Mexico	86.7	(1.55)	79.6	(3.76)	87.6	(1.52)
New York	88.1	(2.05)	78.5	(3.83)	90.1	(1.93)
North Carolina	83.1	(2.02)	79.0	(3.61)	83.8	(2.03)
North Dakota	90.8	(0.45)	78.6	(2.41)	92.5	(0.44)
Ohio	91.1	(2.28)	86.6	(3.18)	91.8	(2.24)
Oklahoma	67.3	(2.74)	55.4	(5.05)	69.4	(2.70)
Oregon	82.9	(2.53)	78.3	(4.12)	83.5	(2.53)
Pennsylvania	87.9	(1.47)	78.9	(3.50)	89.5	(1.34)
Rhode Island	93.8	(0.57)	85.3	(2.20)	95.3	(0.51)
South Carolina	80.2	(2.61)	72.3	(4.01)	81.2	(2.64)
South Dakota	84.5	(1.69)	69.4	(3.86)	86.2	(1.66)
Tennessee	64.6	(3.67)	62.5	(4.82)	65.0	(3.70)
Texas	73.7	(3.11)	64.0	(4.25)	74.7	(3.20)
Utah	95.0	(0.86)	71.8	(4.28)	97.5	(0.68)
Vermont	90.3	(0.53)	84.9	(1.70)	91.4	(0.61)
Virginia	86.0	(2.09)	77.1	(3.66)	87.2	(2.11)
Washington	80.3	(2.65)	66.0	(5.92)	81.9	(2.76)
West Virginia	92.7	(1.49)	76.5	(3.68)	95.1	(1.41)
Wisconsin	87.3	(1.91)	71.2	(4.07)	89.6	(1.92)
Wyoming	94.9	(0.43)	80.6	(2.58)	96.9	(0.33)
Department of Defense Dependents Schools	95.5	(0.44)	86.1	(3.57)	96.4	(0.42)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-55.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by disability status and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)					
	Total	Disability status		Without a disability		
		With a disability				
<b>Nation (public)</b>	82.4	(0.57)	73.5	(0.90)	83.6	(0.60)
Large city	79.8	(1.42)	71.4	(1.98)	80.9	(1.49)
Albuquerque	79.3	(1.38)	80.3	(4.31)	79.1	(1.41)
Atlanta	76.8	(0.97)	66.2	(3.75)	78.1	(1.14)
Austin	69.2	(1.32)	74.7	(3.72)	68.2	(1.55)
Baltimore City	71.5	(4.20)	64.0	(6.12)	73.3	(4.22)
Boston	83.7	(0.65)	72.3	(3.47)	85.9	(0.88)
Charlotte	81.0	(1.78)	73.2	(4.94)	81.8	(1.72)
Chicago	88.2	(2.79)	74.7	(4.71)	90.5	(2.89)
Cleveland	72.2	(1.13)	54.8	(4.17)	76.3	(1.11)
Dallas	74.1	(1.45)	†	(†)	74.5	(1.56)
Detroit	91.6	(0.62)	69.2	(4.29)	94.8	(0.59)
District of Columbia (DCPS)	75.7	(1.39)	65.3	(5.68)	77.6	(1.44)
Fresno	89.7	(1.21)	†	(†)	92.4	(0.98)
Hillsborough County (FL)	60.6	(2.86)	52.8	(4.73)	61.9	(3.29)
Houston	74.6	(1.99)	65.0	(5.51)	75.6	(1.92)
Jefferson County (KY)	90.5	(0.72)	78.5	(3.25)	92.0	(0.72)
Los Angeles	82.4	(3.67)	76.5	(4.53)	83.2	(3.86)
Miami-Dade	69.0	(3.26)	57.4	(6.70)	70.1	(3.41)
New York City	89.9	(2.05)	74.8	(3.82)	93.2	(1.81)
Philadelphia	64.1	(4.35)	64.1	(6.34)	64.1	(4.43)
San Diego	86.8	(1.66)	77.3	(5.23)	87.9	(1.69)
Duval County (FL)	60.2	(2.42)	47.4	(5.38)	61.9	(2.32)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-56.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by English language learner status and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)					
	Total	English language learner (ELL) status		Not ELL		
		ELL				
<b>Nation (public)</b>	82.4	(0.57)	79.1	(1.54)	82.6	(0.57)
<b>Location</b>						
City	80.9	(0.94)	79.7	(2.05)	81.0	(0.96)
Suburban	83.6	(0.98)	78.0	(2.51)	84.0	(0.96)
Town	83.5	(1.74)	80.9	(4.20)	83.7	(1.72)
Rural	81.5	(1.25)	77.7	(4.06)	81.6	(1.23)
<b>Minority enrollment</b>						
75 percent or more	78.7	(1.52)	78.3	(2.10)	78.7	(1.55)
Less than 75 percent	83.7	(0.56)	80.2	(1.69)	83.8	(0.57)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-57.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by English language learner status and state: 2015

(Standard errors in parentheses)						
State	Total	English language learner (ELL) status				
		ELL	Not ELL	ELL	Not ELL	
<b>Nation (public)</b>	<b>82.4</b>	<b>(0.57)</b>	<b>79.1</b>	<b>(1.54)</b>	<b>82.6</b>	<b>(0.57)</b>
Alabama	82.9	(3.08)	‡	(†)	83.3	(3.07)
Alaska	74.9	(1.46)	69.3	(5.91)	75.7	(1.56)
Arizona	64.6	(3.51)	‡	(†)	65.4	(3.63)
Arkansas	72.0	(2.59)	68.1	(4.48)	72.3	(2.62)
California	81.5	(2.85)	81.8	(3.47)	81.5	(2.96)
Colorado	87.9	(1.99)	84.4	(3.92)	88.3	(2.07)
Connecticut	92.0	(1.55)	‡	(†)	92.1	(1.56)
Delaware	74.6	(0.71)	‡	(†)	74.8	(0.71)
District of Columbia	77.6	(0.84)	‡	(†)	78.1	(0.89)
Florida	69.6	(2.44)	64.6	(5.55)	69.9	(2.46)
Georgia	79.4	(2.15)	79.6	(7.59)	79.4	(2.16)
Hawaii	82.9	(0.87)	81.6	(3.21)	83.0	(0.92)
Idaho	87.2	(1.62)	‡	(†)	87.3	(1.61)
Illinois	92.7	(1.38)	87.6	(3.51)	92.9	(1.41)
Indiana	89.8	(2.03)	85.6	(5.29)	90.1	(2.09)
Iowa	93.5	(1.48)	84.6	(5.64)	93.8	(1.44)
Kansas	83.0	(2.44)	86.5	(3.62)	82.6	(2.54)
Kentucky	92.5	(1.79)	‡	(†)	92.4	(1.81)
Louisiana	61.9	(4.00)	‡	(†)	61.9	(4.01)
Maine	78.7	(1.72)	‡	(†)	79.1	(1.74)
Maryland	78.7	(2.60)	76.4	(5.83)	78.8	(2.64)
Massachusetts	84.4	(2.61)	77.7	(7.58)	84.7	(2.60)
Michigan	97.7	(0.74)	96.8	(2.14)	97.7	(0.76)
Minnesota	98.2	(0.76)	100.0 <sup>1</sup>	(†)	98.1	(0.81)
Mississippi	80.1	(2.68)	‡	(†)	80.0	(2.68)
Missouri	85.9	(2.28)	‡	(†)	86.0	(2.28)
Montana	77.0	(1.15)	‡	(†)	77.1	(1.16)
Nebraska	92.8	(1.77)	‡	(†)	92.8	(1.78)
Nevada	80.1	(1.69)	85.0	(2.31)	79.3	(1.81)
New Hampshire	91.8	(1.19)	‡	(†)	91.9	(1.20)
New Jersey	83.2	(2.42)	‡	(†)	83.6	(2.35)
New Mexico	86.7	(1.55)	79.1	(3.19)	87.8	(1.60)
New York	88.1	(2.05)	79.6	(4.92)	88.7	(2.11)
North Carolina	83.1	(2.02)	83.2	(3.99)	83.1	(2.08)
North Dakota	90.8	(0.45)	‡	(†)	91.2	(0.44)
Ohio	91.1	(2.28)	91.0	(10.21)	91.1	(2.28)
Oklahoma	67.3	(2.74)	73.3	(6.56)	67.1	(2.85)
Oregon	82.9	(2.53)	‡	(†)	83.1	(2.47)
Pennsylvania	87.9	(1.47)	69.1	(9.55)	88.2	(1.45)
Rhode Island	93.8	(0.57)	55.2	(4.95)	95.9	(0.43)
South Carolina	80.2	(2.61)	88.0	(4.12)	79.8	(2.65)
South Dakota	84.5	(1.69)	‡	(†)	84.8	(1.72)
Tennessee	64.6	(3.67)	‡	(†)	64.8	(3.64)
Texas	73.7	(3.11)	73.1	(4.91)	73.7	(3.21)
Utah	95.0	(0.86)	75.7	(6.33)	95.6	(0.79)

See notes at end of table.

**TABLE B-57.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by English language learner status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	English language learner (ELL) status				
		ELL	Not ELL			
Vermont	90.3	(0.53)	‡	(†)	90.1	(0.54)
Virginia	86.0	(2.09)	76.4	(7.16)	86.5	(2.17)
Washington	80.3	(2.65)	81.1	(4.81)	80.2	(2.79)
West Virginia	92.7	(1.49)	‡	(†)	92.8	(1.49)
Wisconsin	87.3	(1.91)	94.1	(3.54)	87.1	(1.96)
Wyoming	94.9	(0.43)	‡	(†)	94.9	(0.44)
Department of Defense Dependents Schools	95.5	(0.44)	98.5	(1.44)	95.3	(0.47)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-58.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by English language learner status and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)					
	Total	English language learner (ELL) status				
		ELL	Not ELL			
<b>Nation (public)</b>	<b>82.4</b>	<b>(0.57)</b>	<b>79.1</b>	<b>(1.54)</b>	<b>82.6</b>	<b>(0.57)</b>
Large city	79.8	(1.42)	79.1	(2.29)	79.9	(1.43)
Albuquerque	79.3	(1.38)	78.5	(4.16)	79.4	(1.49)
Atlanta	76.8	(0.97)	‡	(†)	76.5	(0.99)
Austin	69.2	(1.32)	48.5	(4.09)	73.1	(1.36)
Baltimore City	71.5	(4.20)	‡	(†)	70.6	(4.30)
Boston	83.7	(0.65)	84.4	(2.87)	83.6	(0.82)
Charlotte	81.0	(1.78)	‡	(†)	80.7	(1.78)
Chicago	88.2	(2.79)	80.6	(7.11)	88.8	(2.78)
Cleveland	72.2	(1.13)	‡	(†)	72.2	(1.23)
Dallas	74.1	(1.45)	72.2	(3.06)	75.1	(1.76)
Detroit	91.6	(0.62)	99.1	(0.85)	90.3	(0.72)
District of Columbia (DCPS)	75.7	(1.39)	‡	(†)	76.5	(1.46)
Fresno	89.7	(1.21)	85.2	(4.39)	90.6	(1.25)
Hillsborough County (FL)	60.6	(2.86)	49.8	(6.94)	61.7	(2.99)
Houston	74.6	(1.99)	74.5	(3.21)	74.7	(2.12)
Jefferson County (KY)	90.5	(0.72)	‡	(†)	90.3	(0.77)
Los Angeles	82.4	(3.67)	83.3	(4.07)	82.2	(3.91)
Miami-Dade	69.0	(3.26)	75.8	(4.86)	67.9	(3.43)
New York City	89.9	(2.05)	86.3	(4.73)	90.3	(2.01)
Philadelphia	64.1	(4.35)	‡	(†)	64.6	(4.49)
San Diego	86.8	(1.66)	86.8	(3.12)	86.8	(1.71)
Duval County (FL)	60.2	(2.42)	‡	(†)	59.3	(2.39)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-59.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by National School Lunch Program status and selected school characteristics: 2015

(Standard errors in parentheses)						
School characteristic	Total	National School Lunch Program (NSLP) status		Total	National School Lunch Program (NSLP) status	
		NSLP	Not NSLP		NSLP	Not NSLP
<b>Nation (public)</b>	82.4	(0.57)	80.3	(0.72)	85.0	(0.65)
<b>Location</b>						
City	80.9	(0.94)	80.0	(1.20)	82.7	(1.24)
Suburban	83.6	(0.98)	81.0	(1.27)	86.2	(1.02)
Town	83.5	(1.74)	81.5	(2.44)	86.5	(1.58)
Rural	81.5	(1.25)	78.6	(1.37)	84.1	(1.38)
<b>Minority enrollment</b>						
75 percent or more	78.7	(1.52)	78.6	(1.54)	78.9	(1.97)
Less than 75 percent	83.7	(0.56)	81.4	(0.60)	85.7	(0.67)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-60.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by National School Lunch Program status and state: 2015

State	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
<b>Nation (public)</b>	<b>82.4</b>	<b>(0.57)</b>	<b>80.3</b>	<b>(0.72)</b>	<b>85.0</b>	<b>(0.65)</b>
Alabama	82.9	(3.08)	82.0	(3.62)	84.1	(3.29)
Alaska	74.9	(1.46)	73.1	(2.16)	77.2	(1.81)
Arizona	64.6	(3.51)	66.1	(4.01)	64.8	(4.89)
Arkansas	72.0	(2.59)	67.4	(3.12)	78.5	(2.57)
California	81.5	(2.85)	82.9	(3.30)	80.1	(3.62)
Colorado	87.9	(1.99)	88.4	(2.07)	87.2	(2.74)
Connecticut	92.0	(1.55)	89.2	(2.31)	93.6	(1.82)
Delaware	74.6	(0.71)	72.1	(1.48)	76.0	(1.11)
District of Columbia	77.6	(0.84)	76.9	(1.04)	79.3	(1.85)
Florida	69.6	(2.44)	66.3	(2.92)	75.0	(2.23)
Georgia	79.4	(2.15)	79.6	(2.49)	77.0	(2.93)
Hawaii	82.9	(0.87)	83.2	(1.39)	82.5	(1.16)
Idaho	87.2	(1.62)	86.9	(2.00)	87.4	(1.83)
Illinois	92.7	(1.38)	91.4	(1.66)	93.9	(2.09)
Indiana	89.8	(2.03)	87.7	(2.56)	91.6	(2.17)
Iowa	93.5	(1.48)	90.4	(1.93)	95.2	(1.54)
Kansas	83.0	(2.44)	81.2	(3.07)	84.5	(2.62)
Kentucky	92.5	(1.79)	90.5	(2.74)	95.0	(0.78)
Louisiana	61.9	(4.00)	60.5	(4.60)	64.7	(4.06)
Maine	78.7	(1.72)	79.8	(1.91)	77.9	(2.06)
Maryland	78.7	(2.60)	75.2	(3.28)	80.9	(2.76)
Massachusetts	84.4	(2.61)	79.4	(3.73)	88.1	(2.91)
Michigan	97.7	(0.74)	96.7	(1.18)	98.5	(0.54)
Minnesota	98.2	(0.76)	97.2	(1.34)	98.7	(0.54)
Mississippi	80.1	(2.68)	81.1	(3.20)	76.7	(3.13)
Missouri	85.9	(2.28)	80.7	(3.19)	90.1	(2.00)
Montana	77.0	(1.15)	75.9	(1.77)	77.7	(1.47)
Nebraska	92.8	(1.77)	93.4	(1.52)	92.5	(2.18)
Nevada	80.1	(1.69)	81.0	(2.13)	79.1	(1.80)
New Hampshire	91.8	(1.19)	89.9	(2.24)	92.1	(1.07)
New Jersey	83.2	(2.42)	73.7	(4.54)	87.4	(2.09)
New Mexico	86.7	(1.55)	85.5	(1.74)	89.7	(2.25)
New York	88.1	(2.05)	84.8	(2.97)	93.0	(1.97)
North Carolina	83.1	(2.02)	81.2	(2.35)	85.5	(2.39)
North Dakota	90.8	(0.45)	86.8	(1.12)	92.6	(0.58)
Ohio	91.1	(2.28)	89.9	(2.67)	92.1	(2.66)
Oklahoma	67.3	(2.74)	67.1	(2.95)	67.6	(3.51)
Oregon	82.9	(2.53)	81.0	(3.05)	85.4	(2.95)
Pennsylvania	87.9	(1.47)	85.6	(2.02)	89.8	(1.65)
Rhode Island	93.8	(0.57)	89.7	(0.99)	97.1	(0.50)
South Carolina	80.2	(2.61)	77.4	(3.43)	83.7	(2.52)
South Dakota	84.5	(1.69)	81.0	(2.06)	86.6	(1.89)
Tennessee	64.6	(3.67)	61.9	(4.58)	67.8	(3.99)
Texas	73.7	(3.11)	74.7	(3.01)	73.8	(4.10)
Utah	95.0	(0.86)	91.3	(1.52)	96.9	(0.73)

See notes at end of table.

**TABLE B-60.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by National School Lunch Program status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
Vermont	90.3	(0.53)	91.3	(0.94)	89.6	(0.90)
Virginia	86.0	(2.09)	81.8	(3.08)	88.5	(1.96)
Washington	80.3	(2.65)	77.0	(3.09)	83.9	(3.08)
West Virginia	92.7	(1.49)	92.7	(1.72)	92.7	(1.98)
Wisconsin	87.3	(1.91)	80.7	(2.92)	91.6	(1.86)
Wyoming	94.9	(0.43)	92.2	(0.97)	96.2	(0.61)
Department of Defense Dependents Schools	95.5	(0.44)	‡	(†)	‡	(†)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-61.** Percentage of 8th-grade public school students who have a mathematics teacher with an undergraduate or graduate major or minor in mathematics, by National School Lunch Program status and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
<b>Nation (public)</b>	<b>82.4</b>	<b>(0.57)</b>	<b>80.3</b>	<b>(0.72)</b>	<b>85.0</b>	<b>(0.65)</b>
Large city	79.8	(1.42)	79.0	(1.72)	82.2	(1.55)
Albuquerque	79.3	(1.38)	77.1	(1.84)	83.0	(2.15)
Atlanta	76.8	(0.97)	79.3	(1.00)	65.1	(3.30)
Austin	69.2	(1.32)	62.3	(1.83)	78.1	(2.06)
Baltimore City	71.5	(4.20)	70.1	(4.59)	75.3	(4.36)
Boston	83.7	(0.65)	83.7	(0.65)	‡	(†)
Charlotte	81.0	(1.78)	78.5	(2.72)	84.7	(1.95)
Chicago	88.2	(2.79)	87.1	(3.05)	94.3	(3.70)
Cleveland	72.2	(1.13)	72.2	(1.13)	‡	(†)
Dallas	74.1	(1.45)	74.1	(1.62)	74.2	(5.22)
Detroit	91.6	(0.62)	91.8	(0.85)	90.9	(1.58)
District of Columbia (DCPS)	75.7	(1.39)	73.4	(1.70)	81.2	(2.59)
Fresno	89.7	(1.21)	88.8	(1.50)	93.0	(1.95)
Hillsborough County (FL)	60.6	(2.86)	56.6	(3.04)	66.1	(4.38)
Houston	74.6	(1.99)	73.6	(1.96)	77.6	(3.22)
Jefferson County (KY)	90.5	(0.72)	89.8	(1.15)	91.4	(1.09)
Los Angeles	82.4	(3.67)	81.9	(3.91)	84.6	(4.91)
Miami-Dade	69.0	(3.26)	73.1	(3.26)	58.4	(5.87)
New York City	89.9	(2.05)	90.1	(2.10)	89.4	(3.13)
Philadelphia	64.1	(4.35)	58.2	(4.58)	72.8	(4.90)
San Diego	86.8	(1.66)	86.5	(1.94)	87.4	(2.46)
Duval County (FL)	60.2	(2.42)	58.8	(2.69)	61.3	(3.38)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: mathematics education; mathematics; other mathematics-related subject such as statistics; education (including secondary education); special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in mathematics if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in mathematics education, mathematics, or other mathematics-related subject such as statistics.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Mathematics Assessment.

**TABLE B-62.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by race/ethnicity and selected school characteristics: 2015

(Standard errors in parentheses)													
School characteristic	Total	Race/ethnicity										Two or more races	
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native						
<b>Nation (public)</b>	86.0 (0.56)	86.7 (0.55)	84.7 (0.85)	84.8 (1.12)	89.4 (1.32)	88.1 (1.95)	80.6 (2.43)	85.2 (1.54)					
<b>Location</b>													
City	86.8 (1.17)	87.5 (1.35)	85.7 (1.43)	85.9 (1.77)	91.8 (1.68)	91.3 (3.20)	83.4 (4.72)	86.0 (3.89)					
Suburban	87.2 (0.73)	88.0 (0.70)	85.6 (1.29)	85.9 (1.51)	88.7 (1.94)	86.9 (3.68)	85.6 (3.49)	86.7 (1.94)					
Town	84.5 (1.64)	85.8 (1.50)	81.3 (2.78)	82.7 (4.94)	85.1 (2.87)	84.7 (2.67)	77.2 (5.61)	84.8 (2.94)					
Rural	83.4 (1.37)	84.8 (1.18)	81.5 (2.85)	77.8 (4.82)	81.9 (3.37)	88.7 (5.71)	79.9 (2.87)	80.4 (2.75)					
<b>Minority enrollment</b>													
75 percent or more	85.2 (1.41)	82.5 (2.67)	84.6 (1.45)	85.5 (1.79)	89.5 (2.92)	87.1 (2.30)	76.1 (5.34)	84.6 (4.08)					
Less than 75 percent	86.3 (0.59)	86.9 (0.57)	84.9 (1.13)	83.9 (1.18)	89.4 (1.26)	89.0 (3.22)	82.7 (2.15)	85.3 (1.57)					

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-63.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by race/ethnicity and state: 2015

(Standard errors in parentheses)													
State	Total	Race/ethnicity										Two or more races	
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native						
<b>Nation (public)</b>	86.0 (0.56)	86.7 (0.55)	84.7 (0.85)	84.8 (1.12)	89.4 (1.32)	88.1 (1.95)	80.6 (2.43)	85.2 (1.54)					
Alabama	93.5 (1.30)	93.4 (1.32)	94.5 (2.43)	92.6 (4.37)	† (†)	† (†)	† (†)	† (†)					
Alaska	82.1 (1.47)	81.9 (1.82)	† (†)	84.6 (3.96)	79.7 (3.19)	† (†)	80.3 (4.02)	87.4 (3.13)					
Arizona	79.7 (3.01)	78.4 (3.60)	83.6 (5.04)	81.7 (3.63)	† (†)	† (†)	69.6 (13.11)	† (†)					
Arkansas	85.4 (1.99)	87.2 (1.97)	79.0 (4.69)	87.6 (3.43)	† (†)	† (†)	† (†)	† (†)					
California	84.1 (2.65)	81.6 (3.89)	82.8 (4.74)	85.0 (2.93)	86.5 (3.86)	† (†)	† (†)	82.3 (12.52)					
Colorado	89.8 (2.66)	89.9 (2.93)	81.7 (8.68)	90.5 (3.20)	94.2 (3.19)	† (†)	† (†)	91.4 (5.11)					
Connecticut	95.8 (1.02)	94.9 (1.39)	96.9 (1.45)	98.1 (0.58)	95.9 (1.75)	† (†)	† (†)	† (†)					
Delaware	83.4 (0.62)	83.9 (1.10)	84.6 (1.43)	80.0 (2.40)	84.6 (4.78)	† (†)	† (†)	† (†)					
District of Columbia	96.5 (0.45)	† (†)	95.7 (0.56)	99.1 (0.89)	† (†)	† (†)	† (†)	† (†)					
Florida	77.1 (2.95)	74.5 (3.84)	75.1 (4.16)	81.0 (3.58)	84.2 (6.62)	† (†)	† (†)	83.4 (7.26)					
Georgia	86.5 (2.12)	85.4 (3.05)	88.0 (2.61)	88.4 (2.82)	82.7 (5.62)	† (†)	† (†)	84.3 (4.64)					
Hawaii	88.5 (0.99)	87.2 (2.77)	† (†)	89.2 (3.23)	90.4 (1.14)	85.5 (1.83)	† (†)	93.2 (1.85)					
Idaho	82.2 (2.02)	83.6 (1.95)	† (†)	76.3 (3.76)	† (†)	† (†)	† (†)	† (†)					
Illinois	91.1 (1.99)	91.4 (2.54)	90.1 (2.66)	89.7 (3.42)	96.2 (2.03)	† (†)	† (†)	† (†)					
Indiana	95.2 (0.95)	95.8 (1.35)	92.0 (4.10)	95.9 (1.79)	† (†)	† (†)	† (†)	90.4 (3.58)					

See notes at end of table.

**TABLE B-63.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by race/ethnicity and state: 2015—Continued

(Standard errors in parentheses)																
State	Total		Race/ethnicity										Two or more races			
			White	Black	Hispanic	Asian	Pacific Islander	American Indian/Alaska Native								
Iowa	97.0	(0.71)	97.2	(0.71)	96.2	(2.34)	97.8	(1.13)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Kansas	85.5	(1.74)	83.8	(2.19)	83.4	(4.10)	90.8	(2.30)	‡	(†)	‡	(†)	‡	(†)	88.7	(3.46)
Kentucky	89.4	(2.22)	88.6	(2.60)	93.0	(1.65)	91.3	(3.27)	92.3	(3.59)	‡	(†)	‡	(†)	94.4	(2.94)
Louisiana	66.7	(3.86)	70.3	(4.20)	62.5	(4.89)	61.3	(6.57)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maine	84.7	(1.49)	85.2	(1.56)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Maryland	87.6	(1.97)	87.1	(2.14)	86.8	(2.82)	91.4	(2.59)	92.7	(2.71)	‡	(†)	‡	(†)	84.4	(5.83)
Massachusetts	96.3	(0.96)	97.0	(0.91)	96.2	(1.35)	93.2	(1.83)	95.3	(2.42)	‡	(†)	‡	(†)	98.4	(1.74)
Michigan	95.8	(1.59)	95.5	(1.95)	97.0	(1.13)	97.1	(2.02)	93.0	(3.30)	‡	(†)	‡	(†)	‡	(†)
Minnesota	95.7	(1.06)	97.2	(0.73)	91.8	(3.52)	90.9	(3.74)	92.5	(2.67)	‡	(†)	95.9	(1.82)	‡	(†)
Mississippi	81.7	(3.19)	84.1	(3.33)	79.2	(5.00)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Missouri	82.2	(2.53)	82.5	(2.62)	82.1	(7.42)	77.6	(5.25)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Montana	74.7	(1.66)	74.1	(1.72)	‡	(†)	82.1	(3.64)	‡	(†)	‡	(†)	78.0	(3.81)	‡	(†)
Nebraska	87.7	(1.77)	86.4	(2.20)	96.7	(2.01)	92.2	(1.46)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Nevada	86.8	(0.90)	85.4	(1.58)	84.0	(2.81)	88.7	(1.19)	86.7	(2.65)	‡	(†)	‡	(†)	84.0	(4.09)
New Hampshire	94.6	(0.96)	94.3	(1.05)	‡	(†)	95.4	(2.41)	95.4	(2.81)	‡	(†)	‡	(†)	‡	(†)
New Jersey	85.7	(2.73)	87.7	(2.77)	83.3	(6.89)	78.6	(5.73)	93.3	(2.96)	‡	(†)	‡	(†)	‡	(†)
New Mexico	88.1	(1.82)	88.2	(2.35)	‡	(†)	87.7	(2.10)	‡	(†)	‡	(†)	88.3	(4.95)	‡	(†)
New York	96.8	(1.12)	99.2	(0.29)	96.4	(1.40)	91.5	(3.48)	96.8	(1.55)	‡	(†)	‡	(†)	‡	(†)
North Carolina	91.7	(1.64)	91.6	(2.03)	91.3	(1.90)	90.5	(2.46)	97.6	(1.01)	‡	(†)	92.2	(3.79)	97.3	(2.08)
North Dakota	93.0	(0.44)	94.6	(0.39)	‡	(†)	92.7	(2.73)	‡	(†)	‡	(†)	76.8	(2.82)	‡	(†)
Ohio	81.1	(3.30)	81.6	(3.45)	78.1	(6.65)	80.2	(7.10)	‡	(†)	‡	(†)	‡	(†)	81.8	(6.61)
Oklahoma	76.9	(2.76)	76.5	(3.33)	75.3	(6.97)	80.2	(3.54)	‡	(†)	‡	(†)	76.3	(3.83)	76.3	(5.69)
Oregon	82.1	(2.37)	82.9	(2.51)	‡	(†)	82.4	(2.95)	81.0	(6.00)	‡	(†)	‡	(†)	75.1	(5.79)
Pennsylvania	88.8	(2.04)	90.4	(2.42)	81.6	(3.66)	88.0	(4.84)	91.6	(4.33)	‡	(†)	‡	(†)	‡	(†)
Rhode Island	95.2	(0.39)	95.9	(0.45)	97.6	(1.21)	91.9	(0.95)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
South Carolina	87.2	(2.22)	86.7	(2.74)	86.4	(2.29)	91.7	(4.10)	‡	(†)	‡	(†)	‡	(†)	90.5	(3.97)
South Dakota	85.4	(1.11)	85.6	(1.22)	‡	(†)	90.6	(2.53)	‡	(†)	‡	(†)	79.4	(4.52)	‡	(†)
Tennessee	69.4	(3.44)	65.5	(4.11)	81.1	(3.02)	69.0	(6.16)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Texas	80.0	(2.67)	78.2	(2.79)	78.8	(5.42)	80.8	(3.28)	91.9	(3.38)	‡	(†)	‡	(†)	70.3	(10.36)
Utah	95.5	(0.91)	96.3	(0.86)	‡	(†)	92.4	(2.07)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Vermont	95.5	(0.33)	95.3	(0.39)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Virginia	87.3	(2.34)	88.0	(3.01)	84.7	(3.68)	89.0	(2.40)	89.8	(3.24)	‡	(†)	‡	(†)	86.3	(3.73)
Washington	80.6	(2.56)	81.7	(2.88)	82.0	(4.75)	78.2	(3.27)	79.6	(3.98)	‡	(†)	82.2	(6.93)	81.7	(5.20)
West Virginia	92.7	(1.32)	92.7	(1.34)	90.7	(3.77)	‡	(†)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wisconsin	82.9	(2.46)	83.9	(2.80)	78.1	(8.10)	82.7	(3.83)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Wyoming	90.2	(0.56)	89.6	(0.62)	‡	(†)	92.2	(1.74)	‡	(†)	‡	(†)	‡	(†)	‡	(†)
Department of Defense Dependents Schools	88.8	(0.67)	88.0	(1.39)	89.3	(2.21)	91.1	(2.04)	‡	(†)	‡	(†)	‡	(†)	87.2	(2.34)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-64.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by race/ethnicity and jurisdiction: 2015

(Standard errors in parentheses)												
Jurisdiction	Total	Race/ethnicity										
		White	Black	Hispanic	Asian	Pacific Islander	American Indian/ Alaska Native	Two or more races				
<b>Nation (public)</b>	86.0 (0.56)	86.7 (0.55)	84.7 (0.85)	84.8 (1.12)	89.4 (1.32)	88.1 (1.95)	80.6 (2.43)	85.2 (1.54)				
Large city	85.6 (1.69)	87.0 (2.15)	84.9 (1.79)	84.2 (2.39)	92.6 (2.43)	92.8 (2.99)	81.8 (5.76)	83.3 (7.06)				
Albuquerque	91.1 (0.83)	90.6 (1.71)	‡ (†)	91.0 (1.02)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Atlanta	83.1 (0.92)	94.6 (1.93)	80.5 (1.03)	92.5 (2.85)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Austin	75.1 (1.25)	75.8 (2.88)	70.0 (5.06)	75.4 (1.70)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Baltimore City	86.9 (4.27)	‡ (†)	87.7 (3.99)	84.2 (9.35)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Boston	95.3 (0.66)	98.3 (0.92)	94.6 (1.23)	93.9 (1.24)	97.3 (1.93)	‡ (†)	‡ (†)	‡ (†)				
Charlotte	91.4 (1.08)	96.5 (1.16)	87.6 (2.23)	91.5 (2.26)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Chicago	87.9 (3.11)	86.1 (8.05)	89.3 (3.62)	87.1 (4.06)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Cleveland	64.7 (1.30)	77.6 (4.14)	56.1 (2.29)	78.8 (3.49)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Dallas	68.3 (1.67)	‡ (†)	52.9 (4.16)	71.8 (1.83)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Detroit	92.1 (0.63)	‡ (†)	93.3 (0.83)	99.3 (0.72)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
District of Columbia (DCPS)	93.8 (0.84)	‡ (†)	92.5 (1.00)	98.2 (1.80)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Fresno	89.7 (1.13)	‡ (†)	‡ (†)	90.0 (1.46)	88.8 (3.88)	‡ (†)	‡ (†)	‡ (†)				
Hillsborough County (FL)	68.6 (3.08)	71.5 (3.31)	66.3 (7.31)	63.8 (3.93)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Houston	68.7 (1.99)	65.4 (5.38)	69.1 (3.45)	66.7 (2.49)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Jefferson County (KY)	94.6 (0.72)	94.6 (1.04)	94.1 (1.20)	97.6 (1.67)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Los Angeles	87.6 (2.48)	86.1 (5.82)	86.8 (5.09)	87.6 (2.74)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
Miami-Dade	94.4 (1.24)	97.9 (1.60)	95.6 (1.79)	93.5 (1.59)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
New York City	94.6 (1.55)	96.3 (2.22)	94.9 (2.02)	92.5 (2.33)	96.9 (1.72)	‡ (†)	‡ (†)	‡ (†)				
Philadelphia	72.7 (6.25)	79.6 (4.00)	63.3 (9.97)	83.0 (7.34)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				
San Diego	89.6 (1.34)	90.9 (1.89)	91.1 (2.78)	84.7 (2.56)	96.7 (1.61)	‡ (†)	‡ (†)	93.7 (2.79)				
Duval County (FL)	80.0 (1.49)	82.1 (1.41)	73.6 (3.44)	87.5 (3.48)	‡ (†)	‡ (†)	‡ (†)	‡ (†)				

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Race/ethnicity based on school records. Race categories exclude persons of Hispanic ethnicity. Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-65.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by disability status and selected school characteristics: 2015

(Standard errors in parentheses)					
School characteristic	Total	Disability status		Total	Standard error
		With a disability	Without a disability		
<b>Nation (public)</b>	86.0	(0.56)	80.2	(0.79)	86.8 (0.56)
<b>Location</b>					
City	86.8	(1.17)	83.2	(1.57)	87.3 (1.18)
Suburban	87.2	(0.73)	80.3	(1.05)	88.1 (0.75)
Town	84.5	(1.64)	77.0	(2.57)	85.6 (1.62)
Rural	83.4	(1.37)	78.1	(1.84)	84.2 (1.39)
<b>Minority enrollment</b>					
75 percent or more	85.2	(1.41)	80.2	(1.75)	85.8 (1.46)
Less than 75 percent	86.3	(0.59)	80.2	(0.91)	87.2 (0.58)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.  
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-66.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by disability status and state: 2015

(Standard errors in parentheses)					
State	Total	Disability status		Total	Standard error
		With a disability	Without a disability		
<b>Nation (public)</b>	86.0	(0.56)	80.2	(0.79)	86.8 (0.56)
Alabama	93.5	(1.30)	90.4	(2.64)	93.8 (1.27)
Alaska	82.1	(1.47)	78.5	(3.21)	82.6 (1.59)
Arizona	79.7	(3.01)	72.7	(4.73)	80.5 (3.03)
Arkansas	85.4	(1.99)	78.8	(4.01)	86.2 (2.02)
California	84.1	(2.65)	73.4	(3.92)	85.2 (2.65)
Colorado	89.8	(2.66)	83.2	(4.36)	90.5 (2.63)
Connecticut	95.8	(1.02)	89.6	(1.71)	96.8 (1.07)
Delaware	83.4	(0.62)	75.5	(2.74)	84.8 (0.67)
District of Columbia	96.5	(0.45)	91.0	(2.21)	97.7 (0.31)
Florida	77.1	(2.95)	72.6	(4.77)	77.8 (2.89)
Georgia	86.5	(2.12)	79.3	(3.92)	87.2 (2.15)
Hawaii	88.5	(0.99)	77.9	(3.32)	89.6 (0.97)
Idaho	82.2	(2.02)	71.3	(4.27)	83.3 (2.04)
Illinois	91.1	(1.99)	81.2	(3.60)	92.4 (2.03)
Indiana	95.2	(0.95)	92.6	(1.83)	95.6 (1.03)
Iowa	97.0	(0.71)	91.4	(1.98)	97.7 (0.78)
Kansas	85.5	(1.74)	82.6	(2.66)	85.9 (1.80)
Kentucky	89.4	(2.22)	79.9	(4.68)	90.4 (2.09)
Louisiana	66.7	(3.86)	57.5	(5.36)	68.4 (3.91)
Maine	84.7	(1.49)	82.0	(2.64)	85.2 (1.62)
Maryland	87.6	(1.97)	84.9	(3.70)	88.1 (2.00)
Massachusetts	96.3	(0.96)	94.0	(1.70)	96.8 (0.95)
Michigan	95.8	(1.59)	89.1	(3.44)	96.6 (1.47)
Minnesota	95.7	(1.06)	89.1	(2.56)	96.5 (1.04)
Mississippi	81.7	(3.19)	74.8	(4.68)	82.4 (3.14)

See notes at end of table.

**TABLE B-66.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by disability status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	Disability status				
		With a disability	Without a disability			
Missouri	82.2	(2.53)	78.7	(3.90)	82.6	(2.68)
Montana	74.7	(1.66)	60.2	(3.90)	76.3	(1.66)
Nebraska	87.7	(1.77)	86.6	(3.10)	87.9	(1.73)
Nevada	86.8	(0.90)	78.7	(3.50)	87.6	(0.86)
New Hampshire	94.6	(0.96)	93.7	(1.83)	94.8	(0.93)
New Jersey	85.7	(2.73)	76.2	(3.23)	87.6	(2.97)
New Mexico	88.1	(1.82)	77.5	(3.15)	89.4	(1.79)
New York	96.8	(1.12)	94.4	(1.49)	97.3	(1.28)
North Carolina	91.7	(1.64)	87.7	(3.21)	92.3	(1.59)
North Dakota	93.0	(0.44)	90.9	(1.99)	93.3	(0.44)
Ohio	81.1	(3.30)	77.2	(4.55)	81.7	(3.32)
Oklahoma	76.9	(2.76)	74.0	(4.14)	77.4	(2.81)
Oregon	82.1	(2.37)	81.9	(3.02)	82.2	(2.48)
Pennsylvania	88.8	(2.04)	80.7	(3.87)	90.3	(1.95)
Rhode Island	95.2	(0.39)	89.3	(1.38)	96.2	(0.36)
South Carolina	87.2	(2.22)	80.6	(4.46)	88.0	(2.15)
South Dakota	85.4	(1.11)	77.0	(3.00)	86.4	(1.11)
Tennessee	69.4	(3.44)	66.4	(5.28)	69.8	(3.42)
Texas	80.0	(2.67)	76.0	(3.76)	80.5	(2.69)
Utah	95.5	(0.91)	71.2	(4.50)	98.2	(0.74)
Vermont	95.5	(0.33)	97.8	(0.89)	95.0	(0.41)
Virginia	87.3	(2.34)	81.3	(3.20)	88.2	(2.46)
Washington	80.6	(2.56)	72.0	(4.24)	81.6	(2.71)
West Virginia	92.7	(1.32)	81.9	(3.29)	94.2	(1.35)
Wisconsin	82.9	(2.46)	75.5	(4.10)	83.9	(2.54)
Wyoming	90.2	(0.56)	76.8	(2.65)	92.1	(0.60)
Department of Defense Dependents Schools	88.8	(0.67)	86.9	(3.13)	89.1	(0.66)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-67.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by disability status and jurisdiction: 2015

(Standard errors in parentheses)						
Jurisdiction	Total	Disability status				
		With a disability	Without a disability			
<b>Nation (public)</b>	86.0	(0.56)	80.2	(0.79)	86.8	(0.56)
Large city	85.6	(1.69)	81.1	(2.22)	86.3	(1.69)
Albuquerque	91.1	(0.83)	81.3	(3.84)	92.6	(0.83)
Atlanta	83.1	(0.92)	78.3	(3.90)	83.7	(0.95)
Austin	75.1	(1.25)	74.9	(4.50)	75.2	(1.32)
Baltimore City	86.9	(4.27)	93.0	(3.64)	85.8	(4.62)
Boston	95.3	(0.66)	89.7	(2.12)	96.2	(0.68)
Charlotte	91.4	(1.08)	94.0	(3.08)	91.2	(1.09)
Chicago	87.9	(3.11)	80.3	(4.73)	89.1	(3.14)
Cleveland	64.7	(1.30)	55.2	(3.70)	67.2	(1.55)
Dallas	68.3	(1.67)	†	(†)	68.9	(1.74)
Detroit	92.1	(0.63)	85.0	(2.98)	93.2	(0.52)
District of Columbia (DCPS)	93.8	(0.84)	85.3	(3.48)	96.0	(0.51)
Fresno	89.7	(1.13)	†	(†)	89.7	(1.25)
Hillsborough County (FL)	68.6	(3.08)	60.1	(6.43)	70.5	(2.97)
Houston	68.7	(1.99)	62.7	(5.45)	69.2	(2.00)
Jefferson County (KY)	94.6	(0.72)	87.9	(3.60)	95.3	(0.69)
Los Angeles	87.6	(2.48)	81.5	(5.53)	88.5	(2.38)
Miami-Dade	94.4	(1.24)	83.7	(5.53)	95.3	(1.23)
New York City	94.6	(1.55)	89.1	(3.30)	95.8	(1.42)
Philadelphia	72.7	(6.25)	67.7	(8.71)	73.5	(6.23)
San Diego	89.6	(1.34)	79.9	(5.75)	90.6	(1.29)
Duval County (FL)	80.0	(1.49)	82.1	(3.65)	79.8	(1.53)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-68.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by English language learner status and selected school characteristics: 2015

(Standard errors in parentheses)						
School characteristic	Total	English language learner (ELL) status				
		ELL	Not ELL			
<b>Nation (public)</b>	86.0	(0.56)	84.1	(1.44)	86.2	(0.55)
<b>Location</b>						
City	86.8	(1.17)	86.5	(2.08)	86.9	(1.17)
Suburban	87.2	(0.73)	82.7	(2.55)	87.5	(0.70)
Town	84.5	(1.64)	84.4	(3.99)	84.7	(1.59)
Rural	83.4	(1.37)	76.1	(5.71)	83.6	(1.34)
<b>Minority enrollment</b>						
75 percent or more	85.2	(1.41)	84.4	(2.18)	85.3	(1.40)
Less than 75 percent	86.3	(0.59)	83.7	(1.40)	86.4	(0.59)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-69.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by English language learner status and state: 2015

State	(Standard errors in parentheses)					
	Total	English language learner (ELL) status				
		ELL	Not ELL			
<b>Nation (public)</b>	<b>86.0</b>	<b>(0.56)</b>	<b>84.1</b>	<b>(1.44)</b>	<b>86.2</b>	<b>(0.55)</b>
Alabama	93.5	(1.30)	‡	(†)	93.6	(1.31)
Alaska	82.1	(1.47)	78.3	(6.49)	82.6	(1.25)
Arizona	79.7	(3.01)	‡	(†)	80.0	(2.93)
Arkansas	85.4	(1.99)	85.8	(4.75)	85.4	(2.05)
California	84.1	(2.65)	85.9	(3.51)	83.9	(2.75)
Colorado	89.8	(2.66)	95.0	(2.15)	89.3	(2.83)
Connecticut	95.8	(1.02)	‡	(†)	95.7	(1.05)
Delaware	83.4	(0.62)	‡	(†)	83.6	(0.65)
District of Columbia	96.5	(0.45)	‡	(†)	96.4	(0.45)
Florida	77.1	(2.95)	78.2	(5.21)	77.1	(3.04)
Georgia	86.5	(2.12)	90.0	(4.69)	86.4	(2.13)
Hawaii	88.5	(0.99)	90.2	(2.84)	88.4	(0.95)
Idaho	82.2	(2.02)	‡	(†)	82.3	(2.05)
Illinois	91.1	(1.99)	82.4	(5.80)	91.5	(1.97)
Indiana	95.2	(0.95)	95.1	(2.39)	95.2	(0.99)
Iowa	97.0	(0.71)	96.3	(2.18)	97.1	(0.74)
Kansas	85.5	(1.74)	91.2	(2.89)	84.8	(1.82)
Kentucky	89.4	(2.22)	89.7	(3.74)	89.3	(2.27)
Louisiana	66.7	(3.86)	‡	(†)	66.9	(3.88)
Maine	84.7	(1.49)	‡	(†)	84.8	(1.49)
Maryland	87.6	(1.97)	‡	(†)	87.5	(2.01)
Massachusetts	96.3	(0.96)	87.7	(3.80)	96.8	(0.91)
Michigan	95.8	(1.59)	91.2	(3.29)	96.0	(1.62)
Minnesota	95.7	(1.06)	90.6	(4.27)	96.0	(1.07)
Mississippi	81.7	(3.19)	‡	(†)	81.6	(3.22)
Missouri	82.2	(2.53)	‡	(†)	81.9	(2.56)
Montana	74.7	(1.66)	‡	(†)	74.7	(1.68)
Nebraska	87.7	(1.77)	‡	(†)	87.9	(1.80)
Nevada	86.8	(0.90)	90.1	(1.71)	86.3	(0.98)
New Hampshire	94.6	(0.96)	‡	(†)	94.7	(0.98)
New Jersey	85.7	(2.73)	‡	(†)	85.9	(2.72)
New Mexico	88.1	(1.82)	85.2	(2.80)	88.4	(1.85)
New York	96.8	(1.12)	87.0	(4.94)	97.3	(0.99)
North Carolina	91.7	(1.64)	89.3	(3.52)	91.8	(1.68)
North Dakota	93.0	(0.44)	‡	(†)	93.0	(0.43)
Ohio	81.1	(3.30)	92.8	(8.05)	80.7	(3.35)
Oklahoma	76.9	(2.76)	91.7	(3.81)	76.1	(2.86)
Oregon	82.1	(2.37)	‡	(†)	82.3	(2.36)
Pennsylvania	88.8	(2.04)	77.6	(7.53)	89.1	(2.09)
Rhode Island	95.2	(0.39)	93.6	(2.24)	95.3	(0.39)
South Carolina	87.2	(2.22)	87.0	(6.14)	87.2	(2.19)
South Dakota	85.4	(1.11)	‡	(†)	85.3	(1.11)
Tennessee	69.4	(3.44)	‡	(†)	69.4	(3.46)
Texas	80.0	(2.67)	77.0	(4.60)	80.4	(2.59)
Utah	95.5	(0.91)	‡	(†)	96.0	(0.83)

See notes at end of table.

**TABLE B-69.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by English language learner status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	English language learner (ELL) status				
		ELL	Not ELL			
Vermont	95.5 (0.33)	‡	(†)	95.4 (0.34)		
Virginia	87.3 (2.34)	81.0 (3.60)		87.6 (2.40)		
Washington	80.6 (2.56)	75.2 (4.87)		81.0 (2.63)		
West Virginia	92.7 (1.32)	‡	(†)	92.7 (1.33)		
Wisconsin	82.9 (2.46)	75.8 (5.98)		83.2 (2.53)		
Wyoming	90.2 (0.56)	‡	(†)	90.3 (0.56)		
Department of Defense Dependents Schools	88.8 (0.67)	‡	(†)	89.3 (0.59)		

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-70.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by English language learner status and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)					
	Total	English language learner (ELL) status				
		ELL	Not ELL			
<b>Nation (public)</b>	<b>86.0 (0.56)</b>	<b>84.1 (1.44)</b>		<b>86.2 (0.55)</b>		
Large city	85.6 (1.69)	84.5 (2.94)		85.8 (1.70)		
Albuquerque	91.1 (0.83)	89.6 (2.76)		91.3 (0.92)		
Atlanta	83.1 (0.92)	‡	(†)	82.9 (0.91)		
Austin	75.1 (1.25)	68.5 (3.94)		76.4 (1.39)		
Baltimore City	86.9 (4.27)	‡	(†)	86.5 (4.40)		
Boston	95.3 (0.66)	88.1 (2.42)		97.3 (0.56)		
Charlotte	91.4 (1.08)	‡	(†)	91.5 (1.11)		
Chicago	87.9 (3.11)	82.3 (6.87)		88.4 (3.07)		
Cleveland	64.7 (1.30)	‡	(†)	62.8 (1.46)		
Dallas	68.3 (1.67)	70.0 (3.35)		67.3 (2.33)		
Detroit	92.1 (0.63)	83.5 (2.13)		93.6 (0.79)		
District of Columbia (DCPS)	93.8 (0.84)	‡	(†)	93.6 (0.84)		
Fresno	89.7 (1.13)	88.9 (2.98)		89.9 (1.24)		
Hillsborough County (FL)	68.6 (3.08)	‡	(†)	70.6 (3.37)		
Houston	68.7 (1.99)	63.5 (3.86)		69.6 (2.03)		
Jefferson County (KY)	94.6 (0.72)	‡	(†)	94.8 (0.71)		
Los Angeles	87.6 (2.48)	90.5 (2.58)		87.2 (2.72)		
Miami-Dade	94.4 (1.24)	89.8 (3.51)		95.0 (1.13)		
New York City	94.6 (1.55)	83.7 (6.68)		95.6 (1.36)		
Philadelphia	72.7 (6.25)	‡	(†)	73.3 (6.15)		
San Diego	89.6 (1.34)	82.4 (4.70)		90.7 (1.28)		
Duval County (FL)	80.0 (1.49)	‡	(†)	79.9 (1.53)		

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-71.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by National School Lunch Program status and selected school characteristics: 2015

School characteristic	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
<b>Nation (public)</b>	86.0	(0.56)	84.9	(0.65)	87.2	(0.67)
<b>Location</b>						
City	86.8	(1.17)	86.7	(1.22)	86.9	(1.68)
Suburban	87.2	(0.73)	86.0	(1.15)	88.4	(0.68)
Town	84.5	(1.64)	82.2	(2.12)	87.6	(1.69)
Rural	83.4	(1.37)	81.8	(1.72)	84.9	(1.37)
<b>Minority enrollment</b>						
75 percent or more	85.2	(1.41)	85.5	(1.37)	83.2	(2.71)
Less than 75 percent	86.3	(0.59)	84.6	(0.72)	87.7	(0.65)

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-72.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by National School Lunch Program status and state: 2015

State	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
<b>Nation (public)</b>	86.0	(0.56)	84.9	(0.65)	87.2	(0.67)
Alabama	93.5	(1.30)	93.3	(1.86)	93.8	(1.18)
Alaska	82.1	(1.47)	81.8	(2.42)	82.4	(1.53)
Arizona	79.7	(3.01)	79.6	(3.75)	81.4	(3.39)
Arkansas	85.4	(1.99)	82.7	(2.72)	89.5	(2.05)
California	84.1	(2.65)	85.5	(2.96)	81.7	(3.89)
Colorado	89.8	(2.66)	87.0	(3.79)	92.3	(2.20)
Connecticut	95.8	(1.02)	97.3	(0.70)	95.0	(1.38)
Delaware	83.4	(0.62)	83.4	(1.13)	84.1	(1.00)
District of Columbia	96.5	(0.45)	95.4	(0.58)	100.0 <sup>1</sup>	(†)
Florida	77.1	(2.95)	76.9	(3.38)	77.5	(3.34)
Georgia	86.5	(2.12)	86.5	(2.44)	87.7	(3.18)
Hawaii	88.5	(0.99)	86.3	(1.56)	90.9	(1.13)
Idaho	82.2	(2.02)	80.6	(2.15)	83.4	(2.27)
Illinois	91.1	(1.99)	90.1	(2.31)	92.0	(2.02)
Indiana	95.2	(0.95)	94.2	(1.13)	96.1	(1.38)
Iowa	97.0	(0.71)	96.1	(0.88)	97.6	(0.90)
Kansas	85.5	(1.74)	85.3	(2.16)	85.6	(1.99)
Kentucky	89.4	(2.22)	88.1	(2.44)	90.9	(2.15)
Louisiana	66.7	(3.86)	64.7	(4.55)	69.9	(3.91)
Maine	84.7	(1.49)	82.0	(1.83)	86.4	(1.72)
Maryland	87.6	(1.97)	90.3	(2.03)	85.8	(2.32)
Massachusetts	96.3	(0.96)	94.8	(1.81)	97.5	(0.90)
Michigan	95.8	(1.59)	96.4	(1.12)	95.3	(2.05)
Minnesota	95.7	(1.06)	93.1	(1.84)	97.1	(0.86)
Mississippi	81.7	(3.19)	81.3	(3.82)	81.7	(3.46)

See notes at end of table.

**TABLE B-72.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by National School Lunch Program status and state: 2015—Continued

State	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status				
		NSLP	Not NSLP			
Missouri	82.2	(2.53)	81.4	(3.63)	82.9	(2.50)
Montana	74.7	(1.66)	74.5	(1.96)	74.8	(1.94)
Nebraska	87.7	(1.77)	91.8	(1.33)	85.1	(2.31)
Nevada	86.8	(0.90)	88.9	(1.12)	84.5	(1.32)
New Hampshire	94.6	(0.96)	93.1	(1.86)	94.9	(0.84)
New Jersey	85.7	(2.73)	78.2	(5.29)	89.0	(2.21)
New Mexico	88.1	(1.82)	89.0	(1.81)	85.7	(3.19)
New York	96.8	(1.12)	95.3	(1.79)	98.6	(0.51)
North Carolina	91.7	(1.64)	89.7	(2.15)	94.3	(1.39)
North Dakota	93.0	(0.44)	88.1	(1.12)	95.2	(0.37)
Ohio	81.1	(3.30)	80.2	(3.79)	81.9	(3.57)
Oklahoma	76.9	(2.76)	73.9	(3.30)	80.7	(3.00)
Oregon	82.1	(2.37)	83.0	(2.46)	81.2	(3.00)
Pennsylvania	88.8	(2.04)	85.9	(2.52)	91.3	(2.42)
Rhode Island	95.2	(0.39)	93.3	(0.69)	96.7	(0.48)
South Carolina	87.2	(2.22)	87.8	(2.45)	86.4	(2.66)
South Dakota	85.4	(1.11)	83.4	(1.68)	86.5	(1.37)
Tennessee	69.4	(3.44)	65.9	(4.28)	73.3	(3.53)
Texas	80.0	(2.67)	80.9	(3.28)	79.4	(2.75)
Utah	95.5	(0.91)	93.8	(1.50)	96.3	(0.77)
Vermont	95.5	(0.33)	97.2	(0.59)	94.4	(0.59)
Virginia	87.3	(2.34)	84.1	(3.01)	89.3	(2.30)
Washington	80.6	(2.56)	79.2	(2.79)	81.7	(2.98)
West Virginia	92.7	(1.32)	92.6	(1.57)	93.0	(1.81)
Wisconsin	82.9	(2.46)	78.3	(3.79)	83.7	(2.89)
Wyoming	90.2	(0.56)	91.0	(1.02)	89.7	(0.80)
Department of Defense Dependents Schools	88.8	(0.67)	‡	(†)	‡	(†)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.

**TABLE B-73.** Percentage of 8th-grade public school students who have a reading teacher with an undergraduate or graduate major or minor in reading, by National School Lunch Program status and jurisdiction: 2015

Jurisdiction	(Standard errors in parentheses)					
	Total	National School Lunch Program (NSLP) status		Not NSLP		
		NSLP	Not NSLP			
<b>Nation (public)</b>	<b>86.0</b>	<b>(0.56)</b>	<b>84.9</b>	<b>(0.65)</b>	<b>87.2</b>	<b>(0.67)</b>
Large city	85.6	(1.69)	85.6	(1.76)	85.9	(2.94)
Albuquerque	91.1	(0.83)	91.1	(1.12)	91.4	(1.42)
Atlanta	83.1	(0.92)	80.1	(1.02)	96.8	(1.17)
Austin	75.1	(1.25)	75.7	(1.80)	74.5	(2.07)
Baltimore City	86.9	(4.27)	86.3	(4.56)	88.5	(4.62)
Boston	95.3	(0.66)	95.3	(0.66)	‡	(†)
Charlotte	91.4	(1.08)	88.5	(1.66)	95.5	(1.11)
Chicago	87.9	(3.11)	87.6	(3.14)	90.0	(5.53)
Cleveland	64.7	(1.30)	64.7	(1.30)	‡	(†)
Dallas	68.3	(1.67)	66.2	(1.82)	86.5	(4.05)
Detroit	92.1	(0.63)	91.4	(0.79)	93.6	(1.69)
District of Columbia (DCPS)	93.8	(0.84)	92.5	(0.99)	100.0 <sup>1</sup>	(†)
Fresno	89.7	(1.13)	88.5	(1.26)	‡	(†)
Hillsborough County (FL)	68.6	(3.08)	63.6	(4.49)	76.3	(2.84)
Houston	68.7	(1.99)	68.1	(2.26)	70.7	(3.11)
Jefferson County (KY)	94.6	(0.72)	96.0	(0.79)	92.4	(1.28)
Los Angeles	87.6	(2.48)	86.8	(2.69)	91.5	(3.15)
Miami-Dade	94.4	(1.24)	93.7	(1.45)	96.7	(1.30)
New York City	94.6	(1.55)	94.5	(1.61)	94.9	(2.46)
Philadelphia	72.7	(6.25)	70.8	(7.10)	75.2	(6.07)
San Diego	89.6	(1.34)	86.4	(2.28)	94.2	(1.04)
Duval County (FL)	80.0	(1.49)	74.5	(2.63)	83.6	(1.46)

† Not applicable.

‡ Reporting standards not met. Sample size insufficient to permit a reliable estimate.

<sup>1</sup> Rounds to 100 percent.

NOTE: Teachers of the students assessed were asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your undergraduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." Teachers were also asked "Did you have a major, minor, or special emphasis in any of the following subjects as part of your graduate coursework: reading, language arts, or literacy education; English; or some other language arts-related subject; special education (including students with disabilities); English language learning." For this table, teachers were classified as having a major or minor in reading if they answered "yes" to having a major, minor, or special emphasis in either undergraduate or graduate coursework in reading, language arts, or literacy education; English; or some other language arts-related subject.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2015 Reading Assessment.



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