

### TIMSS 2011 results for Massachusetts

#### Mathematics - Grade 8

- Public school students' average score was 561 at grade 8.
- Higher percentages of Massachusetts 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 19 percent of 8th-graders in Massachusetts performed at or above the *Advanced* benchmark (625) compared to the international median of 3 percent at grade 8 (figure 4).
- Male and female students scored higher in mathematics, on average, than the TIMSS scale average (table 21).

**Table 20. Average mathematics scores of 8th-grade students in Massachusetts public schools compared with other participating education systems: 2011**

Grade 8	
<b>Education systems higher than Massachusetts</b>	
Korea, Rep. of	<i>Chinese Taipei-CHN</i>
Singapore	<i>Hong Kong-CHN</i>
<b>Education systems not measurably different from Massachusetts</b>	
Japan	
<b>Education systems lower from Massachusetts</b>	
<i>Minnesota-USA</i>	Norway
Russian Federation	Armenia
<i>North Carolina-USA</i>	<i>Alabama-USA</i>
<i>Quebec-CAN</i>	Romania
<i>Indiana-USA</i>	United Arab Emirates
<i>Colorado-USA</i>	Turkey
<i>Connecticut-USA</i>	Lebanon
Israel	<i>Abu Dhabi-UAE</i>
Finland	Malaysia
<i>Florida-USA</i>	Georgia
<i>Ontario-CAN</i>	Thailand
United States	Macedonia, Rep. of
<i>England-GBR</i>	Tunisia
<i>Alberta-CAN</i>	Chile
Hungary	Iran, Islamic Rep. of
Australia	Qatar
Slovenia	Bahrain
Lithuania	Jordan
Italy	<i>Palestinian Nat'l Auth.</i>
<i>California-USA</i>	Saudi Arabia
New Zealand	Indonesia
Kazakhstan	Syrian Arab Republic
Sweden	Morocco
Ukraine	Oman
<i>Dubai-UAE</i>	Ghana

NOTE: Italics indicate participants identified and counted in this report as an education system and not as a separate country.  
 SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011.

- White, Asian, and multiracial students' average scores were higher than the TIMSS scale average, while Black and Hispanic students' average scores were not measurably different from the TIMSS scale average.
- Students in public schools with 75 percent or more of students eligible for free or reduced-price lunch did not score measurably different, on average, from the TIMSS scale average. All other groups scored, on average, above the TIMSS scale average.

**Table 21. Average mathematics scores in grade 8 for selected student groups in public schools in Massachusetts: 2011**

Reporting groups	Mathematics Grade 8
TIMSS scale average	500
U.S. average	509 *
Massachusetts average	561 *
Sex	
Female	558 *
Male	563 *
Race/ethnicity	
White	572 *
Black	516
Hispanic	507
Asian	599 *
Multiracial	567 *
Percentage of public school students eligible for free or reduced-price lunch	
Less than 10 percent	584 *
10 to 24.9 percent	576 *
25 to 49.9 percent	542 *
50 to 74.9 percent	559 *
75 percent or more	491

\* $p < .05$ . Difference between score and TIMSS scale average is significant.  
 NOTE: Black includes African American and Hispanic includes Latino. Racial categories exclude Hispanic origin. Not all race/ethnicity categories are shown, but they are all included in the U.S. and state totals shown throughout the report. The standard errors of the estimates are shown in table E-19 available at <http://nces.ed.gov/pubsearch/pubsinfo.asp?pubid=2013009>.  
 SOURCE: International Association for the Evaluation of Educational Achievement (IEA), Trends in International Mathematics and Science Study (TIMSS), 2011.