

TIMSS 2011 results for Minnesota

Mathematics - Grade 8

- Public school students' average score was 545 at grade 8.
- Higher percentages of Minnesota 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 13 percent of 8th-graders in Minnesota 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 23).

Table 22. Average mathematics scores of 8th-grade students in Minnesota public schools compared with other participating education systems: 2011

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

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 23. Average mathematics scores in grade 8 for selected student groups in public schools in Minnesota: 2011

Reporting groups	Mathematics Grade 8
TIMSS scale average	500
U.S. average	509 *
Minnesota average	545 *
Sex	
Female	545 *
Male	545 *
Race/ethnicity	
White	558 *
Black	497
Hispanic	496
Asian	536 *
Multiracial	536 *
Percentage of public school students eligible for free or reduced-price lunch	
Less than 10 percent	572 *
10 to 24.9 percent	559 *
25 to 49.9 percent	536 *
50 to 74.9 percent	549 *
75 percent or more	470

* $p < .05$. Difference between score and TIMSS scale average is significant.

NOTE: Black includes African American, Hispanic includes Latino, and Asian includes Pacific Islander and Native Hawaiian. 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-20 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.