

TIMSS 2011 results for North Carolina

Mathematics - Grades 4 and 8

- Public school students' average score was 554 at grade 4 and 537 at grade 8.
- Higher percentages of North Carolina 4th- and 8th-graders performed at or above each of the four TIMSS international benchmarks than the international medians. For example, 16 percent of 4th-graders and 14 percent of 8th-graders in North

Carolina performed at or above the *Advanced* benchmark (625) compared to the international median of 4 percent at grade 4 and 3 percent at grade 8 (figures 3 and 4).

- Males outperformed females by 12 score points, on average, at grade 4. At both grade 4 and 8, males and females scored higher in mathematics, on average, than the TIMSS scale average (table 25).

Table 24. Average mathematics scores of 4th- and 8th-grade students in North Carolina public schools compared with other participating education systems: 2011

Grade 4		Grade 8	
Education systems higher than North Carolina		Education systems higher than North Carolina	
Singapore		Korea, Rep. of	Massachusetts-USA
Korea, Rep. of		Singapore	
Hong Kong-CHN		Chinese Taipei-CHN	
Chinese Taipei-CHN		Hong Kong-CHN	
Japan		Japan	
Education systems not measurably different from North Carolina		Education systems not measurably different from North Carolina	
Northern Ireland-GBR	Florida-USA	Minnesota-USA	Indiana-USA
Belgium (Flemish)-BEL		Russian Federation	
Finland		Quebec-CAN	
Education systems lower than North Carolina		Education systems lower than North Carolina	
England-GBR	Croatia	Colorado-USA	Romania
Russian Federation	New Zealand	Connecticut-USA	United Arab Emirates
United States	Spain	Israel	Turkey
Netherlands	Romania	Finland	Lebanon
Denmark	Poland	Florida-USA	Abu Dhabi-UAE
Lithuania	Turkey	Ontario-CAN	Malaysia
Quebec-CAN	Dubai, UAE	United States	Georgia
Portugal	Azerbaijan	England-GBR	Thailand
Germany	Chile	Alberta-CAN	Macedonia, Rep. of
Ireland	Thailand	Hungary	Tunisia
Ontario-CAN	Armenia	Australia	Chile
Serbia	Georgia	Slovenia	Iran, Islamic Rep. of
Australia	Bahrain	Lithuania	Qatar
Hungary	United Arab Emirates	Italy	Bahrain
Slovenia	Iran, Islamic Rep. of	California-USA	Jordan
Czech Republic	Abu Dhabi, UAE	New Zealand	Palestinian Nat'l Auth.
Austria	Qatar	Kazakhstan	Saudi Arabia
Italy	Saudi Arabia	Sweden	Indonesia
Slovak Republic	Oman	Ukraine	Syrian Arab Republic
Alberta-CAN	Tunisia	Dubai-UAE	Morocco
Sweden	Kuwait	Norway	Oman
Kazakhstan	Morocco	Armenia	Ghana
Malta	Yemen	Alabama-USA	
Norway			

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.

- At grade 4, all racial/ethnic groups performed above the TIMSS scale average. At grade 8, White, Asian, and multiracial students' average scores were above the TIMSS scale average, while Black and Hispanic students' average scores were not measurably different from the TIMSS scale average (table 25).
- In general, students at grade 4 scored higher, on average, than the TIMSS scale average. At grade 8 students in public schools with less than 50 percent of students eligible for free or reduced-price lunch scored higher, on average, than the TIMSS scale average, while average scores for students in public schools with 50 percent or more students eligible for free or reduced-price lunch were not measurably different from the TIMSS scale average.

Table 25. Average mathematics scores in grade 4 and 8 for selected student groups in public schools in North Carolina: 2011

Reporting groups	Mathematics	
	Grade 4	Grade 8
TIMSS scale average	500	500
U.S. average	541 *	509 *
North Carolina average	554 *	537 *
Sex		
Female	548 *	535 *
Male	560 *	539 *
Race/ethnicity		
White	577 *	563 *
Black	512 *	495
Hispanic	538 *	510
Asian	613 *	605 *
Multiracial	572 *	525 *
Percentage of public school students eligible for free or reduced-price lunch		
Less than 10 percent	‡	605 *
10 to 24.9 percent	587 *	572 *
25 to 49.9 percent	568 *	543 *
50 to 74.9 percent	550 *	521
75 percent or more	519 *	516

‡ Reporting standards not met.

* $p < .05$. 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-21 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.