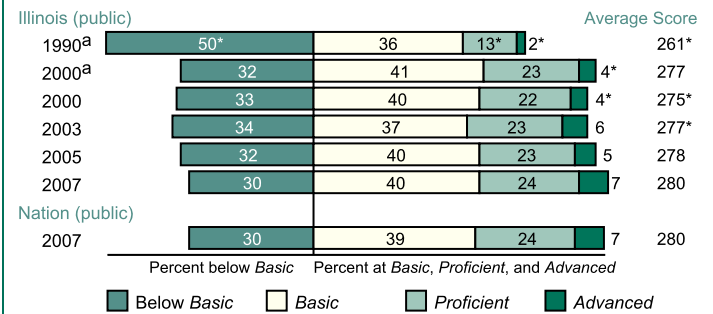


The National Assessment of Educational Progress (NAEP) assesses mathematics in five content areas: number properties and operations; measurement; geometry; data analysis and probability; and algebra. The NAEP mathematics scale ranges from 0 to 500.

Overall Mathematics Results for Illinois

- In 2007, the average scale score for eighth-grade students in Illinois was 280. This was not significantly different from their average score in 2005 (278) and was higher than their average score in 1990 (261).¹
- Illinois' average score (280) in 2007 was not significantly different from that of the nation's public schools (280).
- Of the 52 states and other jurisdictions that participated in the 2007 eighth-grade assessment, students' average scale score in Illinois was higher than those in 15 jurisdictions, not significantly different from those in 12 jurisdictions, and lower than those in 24 jurisdictions.²
- The percentage of students in Illinois who performed at or above the NAEP *Proficient* level was 31 percent in 2007. This percentage was not significantly different from that in 2005 (29 percent) and was greater than that in 1990 (15 percent).
- The percentage of students in Illinois who performed at or above the NAEP *Basic* level was 70 percent in 2007. This percentage was not significantly different from that in 2005 (68 percent) and was greater than that in 1990 (50 percent).

Percentages at NAEP Achievement Levels and Average Score



^a Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 mathematics achievement levels correspond to the following scale points: *Below Basic*, 261 or lower; *Basic*, 262–298; *Proficient*, 299–332; *Advanced*, 333 or above.

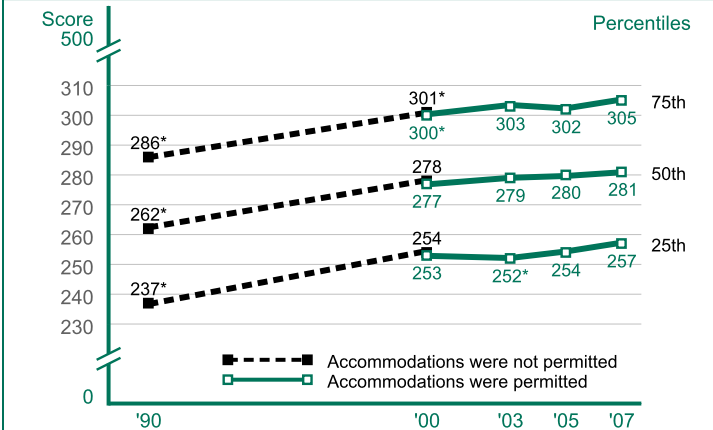
Performance of NAEP Reporting Groups in Illinois: 2007

Reporting groups	Percent of students	Average score	Percent below <i>Basic</i>	Percent of students at or above		Percent <i>Advanced</i>
				<i>Basic</i>	<i>Proficient</i>	
Male	50	282	29	71	33	8
Female	50	279	31	69	29	6
White	60	291	19	81	41	9
Black	16	253	59	41	7	#
Hispanic	18	265	45	55	13	1
Asian/Pacific Islander	5	303	13	87	55	23
American Indian/Alaska Native	#	‡	‡	‡	‡	‡
Eligible for National School Lunch Program	39	262	49	51	13	2
Not eligible for National School Lunch Program	61	292	17	83	42	10

Average Score Gaps Between Selected Groups

- In 2007, male students in Illinois had an average score that was not significantly different from that of female students. In 1990, there was no significant difference between the average score of male and female students.
- In 2007, Black students had an average score that was lower than that of White students by 38 points. In 1990, the average score for Black students was lower than that of White students by 38 points.
- In 2007, Hispanic students had an average score that was lower than that of White students by 26 points. In 1990, the average score for Hispanic students was lower than that of White students by 33 points.
- In 2007, students who were eligible for free/reduced-price school lunch, a proxy for poverty, had an average score that was lower than that of students who were not eligible for free/reduced-price school lunch by 30 points. In 2000, the average score for students who were eligible for free/reduced-price school lunch was lower than the score of those not eligible by 30 points.
- In 2007, the score gap between students at the 75th percentile and students at the 25th percentile was 48 points. In 1990, the score gap between students at the 75th percentile and students at the 25th percentile was 49 points.

Mathematics Scores at Selected Percentiles



NOTE: Scores at selected percentiles on the NAEP mathematics scale indicate how well students at lower, middle, and higher levels performed.

Rounds to zero.

‡ Reporting standards not met.

* Significantly different from 2007.

↑ Significantly higher than 2005. ↓ Significantly lower than 2005.

¹ Comparisons (higher/lower/narrower/wider/not different) are based on statistical tests. The .05 level was used for testing statistical significance. Statistical comparisons are calculated on the basis of unrounded scale scores or percentages. Comparisons across jurisdictions and comparisons with the nation or within a jurisdiction across years may be affected by differences in exclusion rates for students with disabilities (SD) and English language learners (ELL). The exclusion rates for SD and ELL in Illinois were 5 percent and 1 percent in 2007, respectively. For more information on NAEP significance testing see <http://nces.ed.gov/nationsreportcard/mathematics/interpret-results.asp#statistical>.

² "Jurisdictions" refers to states and the District of Columbia and the Department of Defense Education Activity schools.

NOTE: Detail may not sum to totals because of rounding and because the "Information not available" category for the National School Lunch Program, which provides free and reduced-price lunches, and the "Unclassified" category for race/ethnicity are not displayed. Visit <http://nces.ed.gov/nationsreportcard/states/> for additional results and detailed information.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2007 Mathematics Assessments.