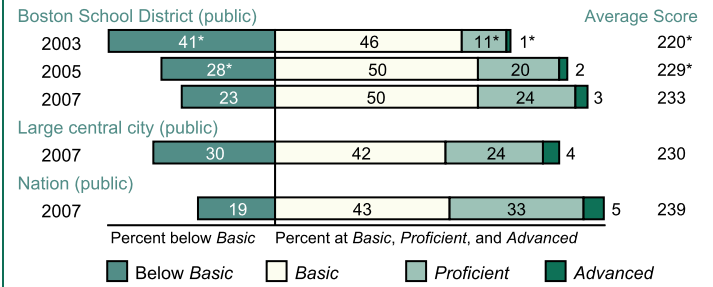


The National Assessment of Educational Progress (NAEP) assesses mathematics on a 0-500 point scale. In 2007, Boston School District was one of eleven urban districts that voluntarily participated in the NAEP mathematics assessment on a trial basis.

Overall Mathematics Results for Boston

- In 2007, the average scale score for fourth-grade students in Boston was 233. This was higher than their average score in 2005 (229) and was higher than their average score in 2003 (220).¹
- Boston's average score (233) in 2007 was higher than that of public schools in large central cities² (230).
- The percentage of students in Boston who performed at or above the NAEP *Proficient* level was 27 percent in 2007. This percentage was greater than that in 2005 (22 percent) and was greater than that in 2003 (12 percent).
- The percentage of students in Boston who performed at or above the NAEP *Basic* level was 77 percent in 2007. This percentage was greater than that in 2005 (72 percent) and was greater than that in 2003 (59 percent).

Percentages at NAEP Achievement Levels and Average Score



NOTE: The NAEP grade 4 mathematics achievement levels correspond to the following scale points: Below *Basic*, 213 or lower; *Basic*, 214–248; *Proficient*, 249–281; *Advanced*, 282 or above.

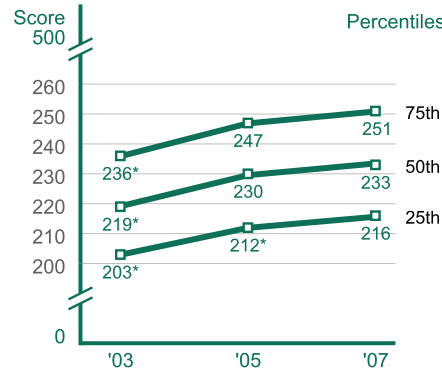
Performance of NAEP Reporting Groups in Boston: 2007

Reporting groups	Percent of students ³	Average score	Percent below <i>Basic</i>	Percent of students at or above		Percent <i>Advanced</i>
				<i>Basic</i>	<i>Proficient</i>	
Male	51	232	24	76	27	3
Female	49	234	21	79	28	3
White	12	250	7	93	52	9
Black	44	226	29	71	18	1
Hispanic	35	230 ↑	24	76	23	2
Asian/Pacific Islander	8	255	9	91	61	17
American Indian/Alaska Native	#	‡	‡	‡	‡	‡
Eligible for National School Lunch Program	82	231 ↑	25	75	24 ↑	3
Not eligible for National School Lunch Program	18	243	14	86	43	7

Average Score Gaps Between Selected Groups

- In 2007, male students in Boston had an average score that was not significantly different from that of female students. In 2003, 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 24 points. In 2003, the average score for Black students was lower than that of White students by 19 points.
- In 2007, Hispanic students had an average score that was lower than that of White students by 19 points. In 2003, the average score for Hispanic students was lower than that of White students by 20 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 13 points. In 2003, the average score for students who were eligible for free/reduced-price school lunch was lower than the score of those not eligible by 15 points.
- In 2007, the score gap between students at the 75th percentile and students at the 25th percentile was 35 points. In 2003, the score gap between students at the 75th percentile and students at the 25th percentile was 33 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 Boston were 4 percent and 2 percent in 2007, respectively. For more information on NAEP significance testing see <http://nces.ed.gov/nationsreportcard/mathematics/interpret-results.asp#statistical>.

² "Large central city" includes public schools located in large central cities (population 250,000 or more) within metropolitan statistical areas as defined by the federal Office of Management and Budget. It is not synonymous with "inner city."

³ For comparison, non-White students comprised 80 percent of students in large central city public schools and 45 percent in public schools nationally at grade 4. Also, students eligible for free/reduced-price school lunch comprised 71 percent of students in large central city public schools and 46 percent in public schools nationally.

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/mathematics/tuda.asp> 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, 2003–2007 Trial Urban District Mathematics Assessments.