

Illinois

Grades 4 and 8 Public Schools State Report Mathematics 2024

This report provides selected results for Illinois's public school students at grades 4 and 8 from the 2024 National Assessment of Educational Progress (NAEP) assessment in mathematics. Results are reported by average scale scores and by NAEP achievement levels (*NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*).

State-level results in mathematics are available for 15 assessment years (at grade 8 in 1990; and at both grades 4 and 8 in 1992, 1996, 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2022, and 2024), although not all states may have participated or met the criteria for reporting in every assessment year. All 50 states, the District of Columbia, Department of Defense Education Activity (DoDEA) schools, and Puerto Rico participated in the 2024 mathematics assessment at grades 4 and 8.

For more information about the assessment, visit the NAEP page of the National Center for Education Statistics (NCES) website at: <https://nces.ed.gov/nationsreportcard/>, which contains

- *The Nation's Report Card™, Mathematics 2024*;
- the full set of national, state, and district results in an interactive database; and
- released test questions, scoring guides, and item-level performance data.

NAEP is a project of the National Center for Education Statistics (NCES), reporting on the academic achievement of elementary and secondary students in the United States.

KEY FINDINGS FOR 2024

Grade 4

- In 2024, the average mathematics scale score for fourth-grade students in Illinois was 236. This was not significantly different from that for the nation's public schools (237).
- The average scale score for students in Illinois in 2024 (236) was higher than that in 2000 (223) and was not significantly different from that in 2022 (237).
- In 2024, the percentage of students in Illinois who performed at or above *NAEP Proficient* was 38 percent. This was not significantly different from that for the nation's public schools (39 percent).
- The percentage of students in Illinois who performed at or above *NAEP Proficient* in 2024 (38 percent) was greater than that in 2000 (20 percent) and was not significantly different from that in 2022 (38 percent).
- In 2024, the percentage of students in Illinois who performed at or above *NAEP Basic* was 74 percent. This was not significantly different from that for the nation's public schools (76 percent).
- The percentage of students in Illinois who performed at or above *NAEP Basic* in 2024 (74 percent) was greater than that in 2000 (63 percent) and was not significantly different from that in 2022 (76 percent).

Grade 8

- In 2024, the average mathematics scale score for eighth-grade students in Illinois was 277. This was higher than that for the nation's public schools (272).
- The average scale score for students in Illinois in 2024 (277) was higher than that in 1990 (261) and was not significantly different from that in 2022 (275).
- In 2024, the percentage of students in Illinois who performed at or above *NAEP Proficient* was 32 percent. This was greater than that for the nation's public schools (27 percent).
- The percentage of students in Illinois who performed at or above *NAEP Proficient* in 2024 (32 percent) was greater than that in 1990 (15 percent) and in 2022 (27 percent).
- In 2024, the percentage of students in Illinois who performed at or above *NAEP Basic* was 62 percent. This was greater than that for the nation's public schools (59 percent).
- The percentage of students in Illinois who performed at or above *NAEP Basic* in 2024 (62 percent) was greater than that in 1990 (50 percent) and was not significantly different from that in 2022 (62 percent).

The U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, and National Assessment of Educational Progress (NAEP) have provided software that generated user-selectable data, statistical significance test result statements, and technical descriptions of the NAEP assessments for this report. Content may be added or edited by states or other jurisdictions. This document, therefore, is not an official publication of the National Center for Education Statistics.

Introduction

What Was Assessed?

The National Assessment of Educational Progress (NAEP) mathematics assessment measures students' knowledge and skills in mathematics and their ability to solve problems in mathematical and real-world contexts. Performance results are reported for the nation overall, for states and jurisdictions, and for 26 districts participating in the Trial Urban District Assessment (TUDA). In 2017, the NAEP mathematics assessment transitioned from a paper-based assessment (PBA) to a digitally based assessment (DBA) at grades 4 and 8. The 2024 NAEP mathematics assessment was the fourth digitally based assessment. A multi-step process was used for the transition from PBA to DBA, with the careful intent to preserve trend lines that show student performance over time. The process involved administering the assessment in both the DBA and PBA formats to randomly equivalent groups of students and ensured that the results from the 2017 and subsequent mathematics assessments could be compared to results from previous years. The 2024 mathematics DBA continues the mathematics trend line that extends back to 1990 at grade 8 and 1992 at both grades 4 and 8.

The NAEP Mathematics Assessment Framework

The [National Assessment Governing Board](#) oversees the development of NAEP frameworks that describe the subject-specific knowledge and thinking skills to be assessed in each subject and how the assessment questions should be designed and scored. The [NAEP mathematics assessment framework](#) specifies five broad content areas and three levels of mathematical complexity.

Mathematics Content Areas

To ensure a balance of content and to allow students to demonstrate a variety of ways of knowing and doing mathematics, the framework specifies assessing fourth- and eighth-grade students in five broad areas of mathematical content. This division into content areas is not intended to separate mathematics into discrete elements, but to provide a helpful classification scheme that describes the full spectrum of mathematical content assessed by NAEP.

- **Number properties and operations** measures students' understanding of ways to represent, calculate, and estimate with numbers.
- **Measurement** assesses students' knowledge, including the use of instruments and the application of processes for attributes such as capacity, length, area, volume, time, angles, and rates.
- **Geometry** measures students' knowledge and understanding of shapes in two and three dimensions and relationships between shapes such as symmetry and transformations.
- **Data analysis, statistics, and probability** measures students' understanding of data representation, characteristics of data sets, experiments and samples, and probability.
- **Algebra** measures students' understanding of patterns, using variables, algebraic representation, and functions.

Levels of Mathematical Complexity

Each NAEP question assesses an objective that can be associated with one of the mathematics content areas. Each question also makes certain demands on students' thinking. These demands determine the mathematical complexity of an item. Mathematical complexity deals with what the students are asked to do in a question. Incorporating levels of complexity in assessment design allows for a balanced testing of mathematical thinking. The framework describes three levels of mathematical complexity.

- **Low complexity** questions typically specify what a student is to do, which usually involves carrying out a routine mathematical procedure.
- **Moderate complexity** questions involve more flexibility of thinking and often require a response with multiple steps.
- **High complexity** questions make heavier demands on students' thinking and often require abstract reasoning or analysis in a novel situation.

Assessment Design

Because of the breadth of the content covered in the NAEP mathematics assessment, each student took just a portion of the test, consisting of two 25-minute sections. Most students' testing time was divided evenly between multiple-choice and constructed-response questions. Short constructed-response questions asked students to provide the answer for a numerical problem or to briefly describe the solution to a problem. Longer constructed-response questions required students to write both a solution and its justification, explanation, or interpretation. Released test questions, along with student performance data by state, are available on the NAEP website at <https://nces.ed.gov/nationsreportcard/data/>.

Some questions in the 2024 assessment incorporated the use of calculators (four-function calculators at grade 4 and scientific or graphing calculators at grade 8), rulers, protractors (at grade 8), or manipulatives such as spinners and geometric shapes. Calculator use at all grades was permitted on approximately one-third of the assessment.

Who Was Assessed?

All 50 states, the District of Columbia, Department of Defense Education Activity (DoDEA) schools, and Puerto Rico participated in the 2024 mathematics assessment at grades 4 and 8. The overall participation rates for schools and students must meet guidelines established by the National Center for Education Statistics (NCES) and the National Assessment Governing Board for assessment results to be reported to the public. A minimum of 85 percent participation is required for schools in each subject and grade combination in NAEP state-level assessment since 2003. Participation rates for the 2024 mathematics assessment are available on the NAEP website at <https://www.nationsreportcard.gov/mathematics/about/samples?anchor=footer&grade=4>.

The schools and students participating in NAEP assessments are selected to be representative both nationally and for public schools at the state level. The comparisons between national and state results in this report present the performance of public school students only. In NAEP reports, the category "nation (public)" does not include DoDEA and Bureau of Indian Education (BIE) schools.

How Is Student Mathematics Performance Reported?

The 2024 state results are compared to the results from the 13 previous assessments for grade 4 and the 14 previous assessments for grade 8.

Scale Scores: Student performance is reported as an average scale score based on the NAEP mathematics scale, which ranges from 0 to 500 for grades 4 and 8. Because NAEP scales are developed independently for each subject and for each content area within a subject, the scores cannot be compared across subjects or across content areas within the same subject. Results are also reported at five percentiles (10th, 25th, 50th, 75th, and 90th) to show trends in performance for lower-, middle-, and higher-performing students.

NAEP Achievement Levels: NAEP achievement levels are performance standards that describe what students should know and be able to do. Results are reported as percentages of students performing at or above three achievement levels (*NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*). Students performing at or above the *NAEP Proficient* level on NAEP assessments demonstrate solid academic performance and competency over challenging subject matter. It should be noted that the *NAEP Proficient* achievement level does not represent grade-level proficiency as determined by other assessment standards (e.g., state or district assessments).

NAEP achievement-level setting is based on the judgments of a broadly representative panel of teachers, education specialists, and members of the general public. The authorizing legislation for NAEP requires that the achievement levels be used on a trial basis until the Commissioner of the National Center for Education Statistics (NCES) determines that the achievement levels are reasonable, valid, and informative to the public (20 USC § 9622(e)(2)(C)). The NCES Commissioner's determination is to be based on a congressionally mandated, rigorous, and independent evaluation. The latest evaluation of the achievement levels was conducted by a committee convened by the National Academies of Sciences, Engineering, and Medicine in 2016. The evaluation concluded that further evidence should be gathered to determine whether the achievement levels are reasonable, valid, and informative. Accordingly, the NCES Commissioner determined that the trial status of the achievement levels should be maintained at this time. Read more about how [NAEP achievement levels](#) are set. In 2018, the [National Assessment Governing Board](#) issued a revised Policy Statement clarifying that the *NAEP Proficient* level is not intended to reflect grade-level performance expectations but is specific to performance on NAEP assessments. Read the [National Assessment Governing Board Policy Statement](#) here.

- *NAEP Basic*, one of the three NAEP achievement levels, denoting partial mastery of prerequisite knowledge and skills that are fundamental for performance at the *NAEP Proficient* level. NAEP also reports the proportion of students whose scores place them below the *NAEP Basic* achievement level.
- *NAEP Proficient*, one of the three NAEP achievement levels, representing solid academic performance for each NAEP assessment. Students reaching this level have demonstrated competency over challenging subject matter, including subject-matter knowledge, application of such knowledge to real-world situations, and analytical skills appropriate to the subject matter.
- *NAEP Advanced*, one of the three NAEP achievement levels, denoting superior performance beyond *NAEP Proficient*.

The NAEP achievement levels are cumulative; therefore, students performing at the *NAEP Proficient* level also display the competencies associated with the *NAEP Basic* level, and students at the *NAEP Advanced* level demonstrate the competencies associated with both the *NAEP Basic* and the *NAEP Proficient* levels.

As provided by law, NCES, upon review of congressionally mandated evaluations of NAEP, has determined that NAEP achievement levels are to be used on a trial basis and should be interpreted with caution. The NAEP achievement levels have been widely used by national and state officials. The mathematics NAEP achievement-level descriptions are summarized in figures 1-A and 1-B.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 1-A. Descriptions of fourth-grade NAEP achievement levels for 2024 NAEP mathematics assessment

NAEP Basic Level (214) *Fourth-grade students performing at the NAEP Basic level should show some evidence of understanding the mathematical concepts and procedures in the five NAEP content areas.*

Fourth-graders performing at the *NAEP Basic* level should be able to estimate and use basic facts to perform simple computations with whole numbers, show some understanding of fractions and decimals, and solve some simple real-world problems in NAEP content areas. Students at this level should be able to use—although not always accurately—four-function calculators, rulers, and geometric shapes. Their written responses are often minimal and presented without supporting information.

NAEP Proficient Level (249) *Fourth-grade students performing at the NAEP Proficient level should consistently apply integrated procedural knowledge and conceptual understanding to problem solving in the five NAEP content areas.*

Fourth-graders performing at the *NAEP Proficient* level should be able to use whole numbers to estimate, compute, and determine whether results are reasonable. They should have a conceptual understanding of fractions and decimals, be able to solve real-world problems in NAEP content areas, and use four-function calculators, rulers, and geometric shapes appropriately. Students performing at the *NAEP Proficient* level should employ problem-solving strategies such as identifying and using appropriate information. Their written solutions should be organized and presented both with supporting information and explanations of how they were achieved.

NAEP Advanced Level (282) *Fourth-grade students performing at the NAEP Advanced level should apply integrated procedural knowledge and conceptual understanding to complex and nonroutine real-world problem solving in the five NAEP content areas.*

Fourth-graders performing at the *NAEP Advanced* level should be able to solve complex and nonroutine real-world problems in all NAEP content areas. They should display mastery in the use of four-function calculators, rulers, and geometric shapes. These students are expected to draw logical conclusions and justify answers and solution processes by explaining why, as well as how, they were achieved. They should go beyond the obvious in their interpretations and be able to communicate their thoughts clearly and concisely.

NOTE: The scores in parentheses in the shaded boxes indicate the lowest point on the 0 to 500 scale at which the NAEP achievement-level range begins.

SOURCE: National Assessment Governing Board. (2018). *Mathematics Framework for the 2019 National Assessment of Educational Progress*. Washington, DC.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 1-B. Descriptions of eighth-grade NAEP achievement levels for 2024 NAEP mathematics assessment

NAEP Basic Level (262) *Eighth-grade students performing at the NAEP Basic level should exhibit evidence of conceptual and procedural understanding in the five NAEP content areas. This level of performance signifies an understanding of arithmetic operations—including estimation—on whole numbers, decimals, fractions, and percents.*

Eighth-graders performing at the *NAEP Basic* level should complete problems correctly with the help of structural prompts such as diagrams, charts, and graphs. They should be able to solve problems in NAEP content areas through the appropriate selection and use of strategies and technological tools—including calculators, computers, and geometric shapes. Students at this level also should be able to use fundamental algebraic and informal geometric concepts in problem solving.

As they approach the *NAEP Proficient* level, students at the *NAEP Basic* level should be able to determine which of the available data are necessary and sufficient for correct solutions and use them in problem solving. However, these eighth-graders show limited skill in communicating mathematically.

NAEP Proficient Level (299) *Eighth-grade students performing at the NAEP Proficient level should apply mathematical concepts and procedures consistently to complex problems in the five NAEP content areas.*

Eighth-graders performing at the *NAEP Proficient* level should be able to conjecture, defend their ideas, and give supporting examples. They should understand the connections among fractions, percents, decimals, and other mathematical topics such as algebra and functions. Students at this level are expected to have a thorough understanding of *NAEP Basic* level arithmetic operations—an understanding sufficient for problem solving in practical situations.

Quantity and spatial relationships in problem solving and reasoning should be familiar to them, and they should be able to convey underlying reasoning skills beyond the level of arithmetic. They should be able to compare and contrast mathematical ideas and generate their own examples. These students should make inferences from data and graphs, apply properties of informal geometry, and accurately use the tools of technology. Students at this level should understand the process of gathering and organizing data and be able to calculate, evaluate, and communicate results within the domain of statistics and probability.

NAEP Advanced Level (333) *Eighth-grade students performing at the NAEP Advanced level should be able to reach beyond the recognition, identification, and application of mathematical rules in order to generalize and synthesize concepts and principles in the five NAEP content areas.*

Eighth-graders performing at the *NAEP Advanced* level should be able to probe examples and counterexamples in order to shape generalizations from which they can develop models. Eighth-graders performing at the *NAEP Advanced* level should use number sense and geometric awareness to consider the reasonableness of an answer. They are expected to use abstract thinking to create unique problem-solving techniques and explain the reasoning processes underlying their conclusions.

NOTE: The scores in parentheses in the shaded boxes indicate the lowest point on the 0 to 500 scale at which the NAEP achievement-level range begins.

SOURCE: National Assessment Governing Board. (2018). *Mathematics Framework for the 2019 National Assessment of Educational Progress*. Washington, DC.

Assessing Students With Disabilities and/or English Learners

Testing accommodations, such as extra testing time or individual (rather than group) administration, are provided for students with disabilities (SD) and/or English learners (EL) who could not fairly and accurately demonstrate their abilities without modified test administration procedures. In 1996, administration procedures were introduced at the national level allowing certain accommodations for students requiring such accommodations to participate.

In state NAEP mathematics assessments prior to 2000, no testing accommodations or adaptations were permitted for SD and/or EL students. In 2000, NAEP was administered using a split sample of schools—one sample in which accommodations were permitted for SD and/or EL students who normally received them and another sample in which accommodations were not permitted. Therefore, there were two different sets of results available for 2000, and both are shown in the tables in this report. Please note that bullet statements only reference the results from the 2000 assessment where accommodations were permitted. Results for the assessment years when accommodations were not permitted in state NAEP assessments (1990, 1992, 1996) are reported in the same tables as the results when accommodations were permitted (2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2022, and 2024).

2024 NAEP Mathematics Digitally Based Assessment

The 2024 NAEP mathematics digitally based assessment was designed to continue reporting trends in student performance dating back to 1990, while keeping pace with the new generation of classroom environments in which digital technology has become an increasing part of students' learning. The 2024 assessment content was developed with the same [mathematics framework](#) used to develop the 2009 through 2015 paper-based assessments and the 2017 and later digitally based assessments. More information about the paper-to-digital transition can be found [here](#).

While the majority of the 2024 NAEP mathematics sample took the assessment using Surface Pro devices, as is the same device type that has been continuously used since the 2017 digital transition, a small portion of the students sampled took the assessment on Chromebook devices. NAEP administered the assessment using both devices to investigate and, if necessary, adjust for potential differences in performance between students taking the assessment on Surface Pro versus Chromebook. This investigation was conducted because NCES plans to transition NAEP mathematics assessments to exclusive Chromebook use in the next administration. Following an extensive mode evaluation study conducted by NCES, both the Surface Pro and Chromebook samples were combined for analysis and reporting purposes.

The assessment was administered on either Surface Pro or Chromebook tablet computers supplied by NCES using a secure, local NAEP network. This allowed the NAEP administrators to create a stable administration environment that would not be influenced by school-based equipment or school internet connectivity, thereby maintaining consistency across the assessed schools. Students were able to interact with the tablets via the touchscreen, with an attached keyboard, or using a stylus (for Surface Pro devices only) provided by NCES. The digitally based mathematics assessment provided students with a variety of onscreen tools, including an equation editor for entering numbers and expressions using the correct mathematical symbols; a scratchwork tool for annotating figures, performing computations, drawing diagrams, and highlighting portions of a question; and a calculator. At the beginning of the assessment session, students viewed an [interactive tutorial](#) that provided the information needed to take the assessment on a tablet; for example, it explains how to progress

through questions, how to indicate answers for multiple choice questions, and how to use onscreen tools effectively when answering questions. The interactive nature of the tutorial allowed students to familiarize themselves with the digital delivery system before beginning the actual assessment. See the [NAEP sample questions](#) and how the mathematics assessment was presented to students.

After the administration of the assessment, the National Center for Education Statistics (NCES) conducted rigorous analyses of the data and aligned the 2024 results to previous assessment years. The usual NAEP procedure of common item linking was used to calculate the trend line from 2024 to 2022. This kind of linking was appropriate because a majority of the 2024 assessment questions were also administered in 2022 and most showed the same statistical properties.

Interpreting the Results

The scores and percentages in this report are estimates based on samples of students rather than on entire populations. In addition, the collection of questions used at each grade level is only a sample of the many questions that could have been asked to assess the skills and abilities described in the NAEP framework. Comparisons over time or between groups are based on statistical tests that consider both the size of the differences and the standard errors of the two statistics being compared. Standard errors are margins of error, and estimates based on smaller groups are likely to have larger margins of error. The size of the standard errors may also be influenced by other factors such as how representative the assessed students are of the entire population. Statistical tests that factor in these standard errors are used to determine whether the differences between average scale scores or percentages are significant. All differences were tested for statistical significance at the .05 level using unrounded numbers, with appropriate adjustments for [multiple comparisons](#).

Differences between scores or percentages are discussed in this report only when they are significant from a statistical perspective. Significant differences between 2024 and prior assessments are marked with a notation (*) in the tables. Any differences in scores within a year or across years that are mentioned in the text as "higher," "lower," "greater," or "smaller" are statistically significant.

Score or percentage differences or gaps cited in this report are calculated based on differences between unrounded numbers. Therefore, the reader may find that the score or percentage difference cited in the text or tables may not be identical to the difference obtained from subtracting the rounded values shown in the accompanying tables or figures.

The reader is cautioned against making simple causal inferences between student performance and the other variables (e.g., race/ethnicity, gender, and type of school location) discussed in this report. A statistically significant relationship between a variable and measures of student performance does not imply that the variable causes differences in how well students perform. The relationship may be influenced by a number of other variables not accounted for in this report, such as family income, parental involvement, or student attitudes.

NAEP 2024 Mathematics Overall Average Score and NAEP Achievement-Level Results for Public School Students

Overall mathematics results for public school students from Illinois are reported in this section, as well as regional and national results. The regions defined by the U.S. Census Bureau are Northeast, South, Midwest, and West (<https://nces.ed.gov/nationsreportcard/hsts/tabulations/regions.asp>). Trend data by region are not provided for assessment years prior to 2003.

Prior to 2000, testing accommodations were not provided for SD and/or EL students in NAEP state mathematics assessments. For 2000, results are displayed for both the sample in which accommodations were permitted and the sample in which they were not permitted. Subsequent assessment results were based on the more inclusive samples. In the text of this report, comparisons to 2000 results refer only to the sample in which accommodations were permitted.

Overall Average Scale Score Results

Student performance is reported as an average scale score based on the NAEP mathematics scale, which ranges from 0 to 500 for grades 4 and 8.

Tables 1-A and 1-B show the overall performance results of grades 4 and 8 public school students in Illinois, the nation, and the region. Prior to 2003, the list of states that comprise a given region for NAEP differed from the list used by the U.S. Census Bureau, which has been used in NAEP from 2003 onward. Therefore, the data for the state's region are given only since 2003. The first column of results presents the average scale score on the NAEP mathematics scale. The remaining columns show the scores at selected percentiles. Percentiles indicate the percentages of students whose scores fell at or below a particular score. For example, the 25th percentile defines the cut point for the lowest 25 percent of students within the distribution of scale scores.

Grade 4 Average Scale Score Results

- In 2024, the average scale score for students in Illinois was 236. This was not significantly different from that for students across the nation (237).
- In Illinois, the average scale score for students in 2024 was not significantly different from that in 2022 (237). However, the average scale score for students in public schools across the nation in 2024 was higher than that in 2022 (235).
- In Illinois, the average scale score for students in 2024 was higher than the score in 2000. However, it was not significantly different from the scores in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

Grade 8 Average Scale Score Results

- In 2024, the average scale score for students in Illinois was 277. This was higher than that for students across the nation (272).
- In Illinois, the average scale score for students in 2024 was not significantly different from that in 2022 (275). Similarly, the average scale score for students in public schools across the nation in 2024 was not significantly different from that in 2022 (273).
- In Illinois, the average scale score for students in 2024 was higher than the score in 1990. However, it was lower than the scores in 2009, 2011, 2013, 2015, 2017, and 2019.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 1-A. Average scale scores and selected percentile scores in NAEP mathematics for fourth-grade public school students, by year and jurisdiction: Various years, 2000–2024**

Year and jurisdiction		Average scale score	10th percentile	25th percentile	50th percentile	75th percentile	90th percentile
2000 ¹	Nation (public)	226*	185*	206*	228*	249*	265*
	Illinois	225*	186	205	227*	246*	262*
2000	Nation (public)	224*	183*	203*	225*	247*	264*
	Illinois	223*	184	202*	225*	244*	261*
2003	Nation (public)	234*	196*	215	235*	254*	270*
	Midwest ²	237	199*	218*	238*	256*	272*
	Illinois	233	192	212	234*	255*	272*
2005	Nation (public)	237	199*	219*	239*	257*	272*
	Midwest ²	239	201*	221*	241	259*	274*
	Illinois	233	192	213	235	255*	271*
2007	Nation (public)	239*	201*	221*	241*	259*	274*
	Midwest ²	242*	204*	224*	244*	261	276*
	Illinois	237	198*	218*	239	258	274
2009	Nation (public)	239*	201*	221*	241	259*	275*
	Midwest ²	241*	204*	223*	243*	261	277*
	Illinois	238	198*	219*	240	259	276
2011	Nation (public)	240*	202*	222*	242*	260*	276*
	Midwest ²	242*	204*	224*	244*	262	277*
	Illinois	239	199*	219*	240	260	277
2013	Nation (public)	241*	202*	222*	243*	262	278*
	Midwest ²	243*	203*	224*	245*	264*	280
	Illinois	239	197*	218*	240	261	279
2015	Nation (public)	240*	201*	221*	241*	260*	277*
	Midwest ²	242*	202*	222*	243*	262	279
	Illinois	237	195*	216	238	260	278
2017	Nation (public)	239*	197*	219*	241*	261	279*
	Midwest ²	241*	199*	220*	243*	263	281
	Illinois	238	194*	215	239	262	280
2019	Nation (public)	240*	198*	220*	242*	262	279
	Midwest ²	241*	198*	220*	243*	263	280
	Illinois	237	194	217	240	261	279
2022	Nation (public)	235*	190	213*	236*	258*	277*
	Midwest ²	237	191	215	239*	260*	279
	Illinois	237	192	215	238	260	280
2024	Nation (public)	237	190	215	240	262	280
	Midwest ²	238	191	216	241	262	280
	Illinois	236	189	213	239	261	280

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

² Region in which jurisdiction is located. Regional data are not provided for years prior to 2003 to be consistent with the U.S. Census Bureau defined regions.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 1-B. Average scale scores and selected percentile scores in NAEP mathematics for eighth-grade public school students, by year and jurisdiction: Various years, 1990–2024**

Year and jurisdiction		Average scale score	10th percentile	25th percentile	50th percentile	75th percentile	90th percentile
1990 ¹	Nation (public)	262*	214	237*	263*	288*	307*
	Illinois	261*	212	237*	262*	286*	306*
2000 ¹	Nation (public)	274*	225*	250*	276*	300	321*
	Illinois	277	233*	254*	278	301*	319*
2000	Nation (public)	272	221*	247*	274	299*	320*
	Illinois	275	227	253*	277	300*	318*
2003	Nation (public)	276*	228*	253*	278*	301	321*
	Midwest ²	281*	235*	259*	283*	305	324*
	Illinois	277	228*	252*	279	303*	324*
2005	Nation (public)	278*	230*	254*	279*	303	323*
	Midwest ²	281*	235*	259*	283*	306	325*
	Illinois	278	230*	254*	280	302*	322*
2007	Nation (public)	280*	234*	257*	281*	305*	325
	Midwest ²	283*	238*	261*	285*	308*	327
	Illinois	280	235*	257*	281	305	326*
2009	Nation (public)	282*	235*	258*	283*	307*	328
	Midwest ²	285*	240*	262*	287*	309*	329
	Illinois	282*	237*	259*	284*	307	327*
2011	Nation (public)	283*	236*	259*	284*	308*	329*
	Midwest ²	286*	241*	263*	287*	309*	329
	Illinois	283*	238*	260*	283*	307	329*
2013	Nation (public)	284*	236*	260*	285*	309*	330*
	Midwest ²	286*	240*	263*	288*	311*	332*
	Illinois	285*	236*	261*	286*	311	332
2015	Nation (public)	281*	234*	257*	282*	307*	328
	Midwest ²	284*	237*	261*	286*	309*	330
	Illinois	282*	235*	259*	283*	306	327*
2017	Nation (public)	282*	232*	255*	282*	309*	332*
	Midwest ²	285*	235*	259*	285*	312*	334*
	Illinois	282*	232*	255*	281	308	333
2019	Nation (public)	281*	230*	254*	281*	308*	332*
	Midwest ²	284*	234*	258*	285*	311*	333*
	Illinois	283*	232*	256*	282	309	333
2022	Nation (public)	273	223*	246*	273	300*	324*
	Midwest ²	276	227*	250	276	303*	325*
	Illinois	275	227	248	273	301*	327*
2024	Nation (public)	272	218	243	272	302	327
	Midwest ²	277	224	249	277	305	329
	Illinois	277	220	245	277	309	335

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

² Region in which jurisdiction is located. Regional data are not provided for years prior to 2003 to be consistent with the U.S. Census Bureau defined regions.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

Overall NAEP Achievement-Level Results

Student results are reported as the percentages of students performing relative to performance standards set by the National Assessment Governing Board. These performance standards for what students should know and be able to do were based on the recommendations of broadly representative panels of educators and members of the public.

Tables 2-A and 2-B show the percentage of students at grades 4 and 8 who performed below *NAEP Basic*, at or above *NAEP Basic*, at or above *NAEP Proficient*, and at *NAEP Advanced*. Because some percentages presented here are cumulative from *NAEP Basic* or from *NAEP Proficient*, they may sum to more than 100 percent. Only the percentage of students performing at or above *NAEP Basic* (which includes the students at *NAEP Basic*, at *NAEP Proficient*, and at *NAEP Advanced*) plus the students below *NAEP Basic* will sum to 100 percent.

Grade 4 NAEP Achievement-Level Results

- In 2024, the percentage of Illinois's students who performed at or above *NAEP Proficient* was 38 percent. This was not significantly different from the percentage of the nation's public school students who performed at or above *NAEP Proficient* (39 percent).
- In Illinois, the percentage of students who performed at or above *NAEP Proficient* in 2024 was greater than the percentages in 2000, 2003, and 2005, but was not significantly different from the percentages in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of Illinois's students who performed at or above *NAEP Basic* was 74 percent. This was not significantly different from the percentage of the nation's public school students who performed at or above *NAEP Basic* (76 percent).
- In Illinois, the percentage of students who performed at or above *NAEP Basic* in 2024 was greater than the percentage in 2000, but was smaller than the percentages in 2007, 2009, 2011, and 2013.

Grade 8 NAEP Achievement-Level Results

- In 2024, the percentage of Illinois's students who performed at or above *NAEP Proficient* was 32 percent. This was greater than the percentage of the nation's public school students who performed at or above *NAEP Proficient* (27 percent).
- In Illinois, the percentage of students who performed at or above *NAEP Proficient* in 2024 was greater than the percentages in 1990, 2000, and 2022, but was smaller than the percentage in 2013.
- In 2024, the percentage of Illinois's students who performed at or above *NAEP Basic* was 62 percent. This was greater than the percentage of the nation's public school students who performed at or above *NAEP Basic* (59 percent).
- In Illinois, the percentage of students who performed at or above *NAEP Basic* in 2024 was greater than the percentage in 1990, but was smaller than the percentages in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, and 2019.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 2-A. Percentage of fourth-grade public school students at or above NAEP mathematics achievement levels, by year and jurisdiction: Various years, 2000–2024

Year and jurisdiction		Below NAEP Basic	At or above NAEP Basic	At or above NAEP Proficient	At NAEP Advanced
2000 ¹	Nation (public)	33*	67*	25*	2*
	Illinois	34*	66*	21*	2*
2000	Nation (public)	36*	64*	22*	2*
	Illinois	37*	63*	20*	2*
2003	Nation (public)	24	76	31*	4*
	Midwest ²	21*	79*	35*	4*
	Illinois	27	73	32*	5*
2005	Nation (public)	21*	79*	35*	5*
	Midwest ²	19*	81*	38*	5*
	Illinois	26	74	32*	5*
2007	Nation (public)	19*	81*	39	5*
	Midwest ²	16*	84*	42*	6*
	Illinois	21*	79*	36	6*
2009	Nation (public)	19*	81*	38	6*
	Midwest ²	17*	83*	42	7*
	Illinois	20*	80*	38	7
2011	Nation (public)	18*	82*	40	6*
	Midwest ²	16*	84*	42*	7*
	Illinois	20*	80*	38	7
2013	Nation (public)	18*	82*	41*	8*
	Midwest ²	16*	84*	45*	9
	Illinois	21*	79*	39	8
2015	Nation (public)	19*	81*	39	7*
	Midwest ²	18*	82*	42	8
	Illinois	23	77	37	8
2017	Nation (public)	21*	79*	40	8*
	Midwest ²	20*	80*	42*	9
	Illinois	24	76	39	9
2019	Nation (public)	20*	80*	40*	9
	Midwest ²	20*	80*	42*	9
	Illinois	23	77	38	8
2022	Nation (public)	26*	74*	35*	7*
	Midwest ²	24	76	38*	8
	Illinois	24	76	38	9
2024	Nation (public)	24	76	39	9
	Midwest ²	24	76	40	9
	Illinois	26	74	38	9

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

² Region in which jurisdiction is located. Regional data are not provided for years prior to 2003 to be consistent with the U.S. Census Bureau defined regions.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below NAEP Basic, 213 or lower; NAEP Basic, 214–248; NAEP Proficient, 249–281; and NAEP Advanced, 282 or above. At or above NAEP Basic includes NAEP Basic, NAEP Proficient, and NAEP Advanced. At or above NAEP Proficient includes NAEP Proficient and NAEP Advanced. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 2-B. Percentage of eighth-grade public school students at or above NAEP mathematics achievement levels, by year and jurisdiction: Various years, 1990–2024**

Year and jurisdiction		Below NAEP Basic	At or above NAEP Basic	At or above NAEP Proficient	At NAEP Advanced
1990 ¹	Nation (public)	49*	51*	15*	2*
	Illinois	50*	50*	15*	2*
2000 ¹	Nation (public)	35*	65*	26	5*
	Illinois	32*	68*	27*	4*
2000	Nation (public)	38*	62*	25*	5*
	Illinois	33	67	26*	4*
2003	Nation (public)	33*	67*	27	5*
	Midwest ²	28*	72*	32	6*
	Illinois	34*	66*	29	6*
2005	Nation (public)	32*	68*	28*	6*
	Midwest ²	28*	72*	32*	6*
	Illinois	32*	68*	29	5*
2007	Nation (public)	30*	70*	31*	7*
	Midwest ²	26*	74*	34*	7*
	Illinois	30*	70*	31	7*
2009	Nation (public)	29*	71*	33*	7
	Midwest ²	25*	75*	36*	8
	Illinois	27*	73*	33	7*
2011	Nation (public)	28*	72*	34*	8
	Midwest ²	24*	76*	36*	8
	Illinois	27*	73*	33	8*
2013	Nation (public)	27*	73*	34*	8
	Midwest ²	24*	76*	37*	9*
	Illinois	26*	74*	36*	9
2015	Nation (public)	30*	70*	32*	8
	Midwest ²	26*	74*	35*	8
	Illinois	28*	72*	32	7*
2017	Nation (public)	31*	69*	33*	10*
	Midwest ²	28*	72*	36*	11*
	Illinois	32*	68*	32	10
2019	Nation (public)	32*	68*	33*	10*
	Midwest ²	28*	72*	36*	10*
	Illinois	31*	69*	34	10
2022	Nation (public)	40*	60*	26*	7*
	Midwest ²	36	64	28*	7*
	Illinois	38	62	27*	7*
2024	Nation (public)	41	59	27	8
	Midwest ²	36	64	30	8
	Illinois	38	62	32	11

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

² Region in which jurisdiction is located. Regional data are not provided for years prior to 2003 to be consistent with the U.S. Census Bureau defined regions.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262–298; *NAEP Proficient*, 299–332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

Comparisons Between Illinois, the Nation, and Participating States and Jurisdictions

All 50 states, the District of Columbia, Department of Defense Education Activity schools (DoDEA), and Puerto Rico participated in the 2024 mathematics assessment at grades 4 and 8. References to "jurisdictions" in the results statements may include states, the District of Columbia, and DoDEA schools.

Comparisons by Average Scale Scores

Figures 2-A and 2-B compare Illinois's 2024 overall mathematics scale scores at grades 4 and 8 with those of public schools in the nation and all other participating states and jurisdictions. The different shadings indicate whether the average scale score of the nation (public), a state, or a jurisdiction was found to be higher than, lower than, or not significantly different from that of Illinois in the NAEP 2024 mathematics assessment.

Grade 4 Average Scale Score Comparison Results

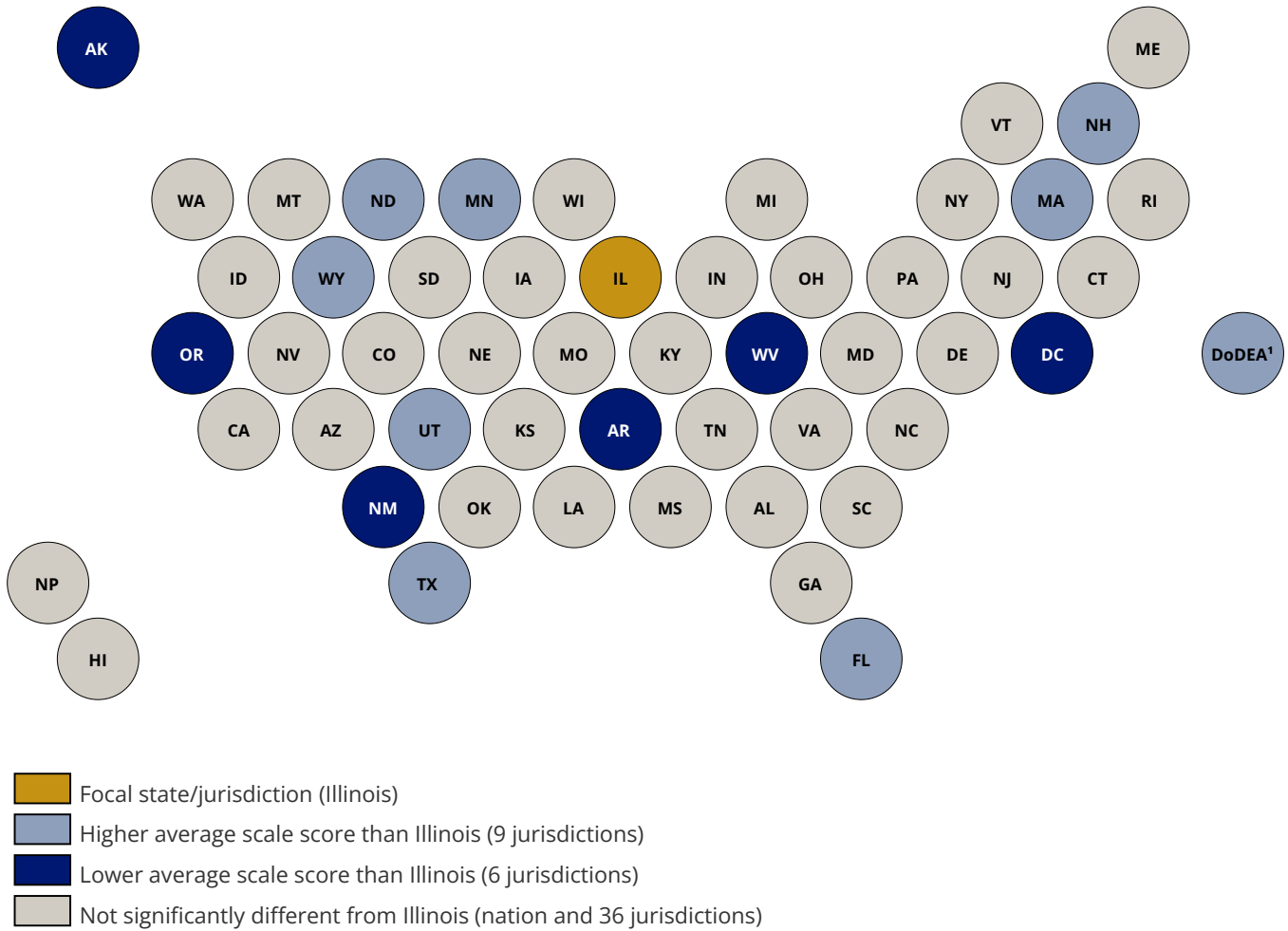
- The average scale score for students in Illinois was higher than 6 jurisdictions, not significantly different from 36 jurisdictions, and lower than 9 jurisdictions.

Grade 8 Average Scale Score Comparison Results

- The average scale score for students in Illinois was higher than 26 jurisdictions, not significantly different from 20 jurisdictions, and lower than 5 jurisdictions.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 2-A. Illinois's average scale score in NAEP mathematics for fourth-grade public school students compared with scores for the nation and other participating jurisdictions: 2024



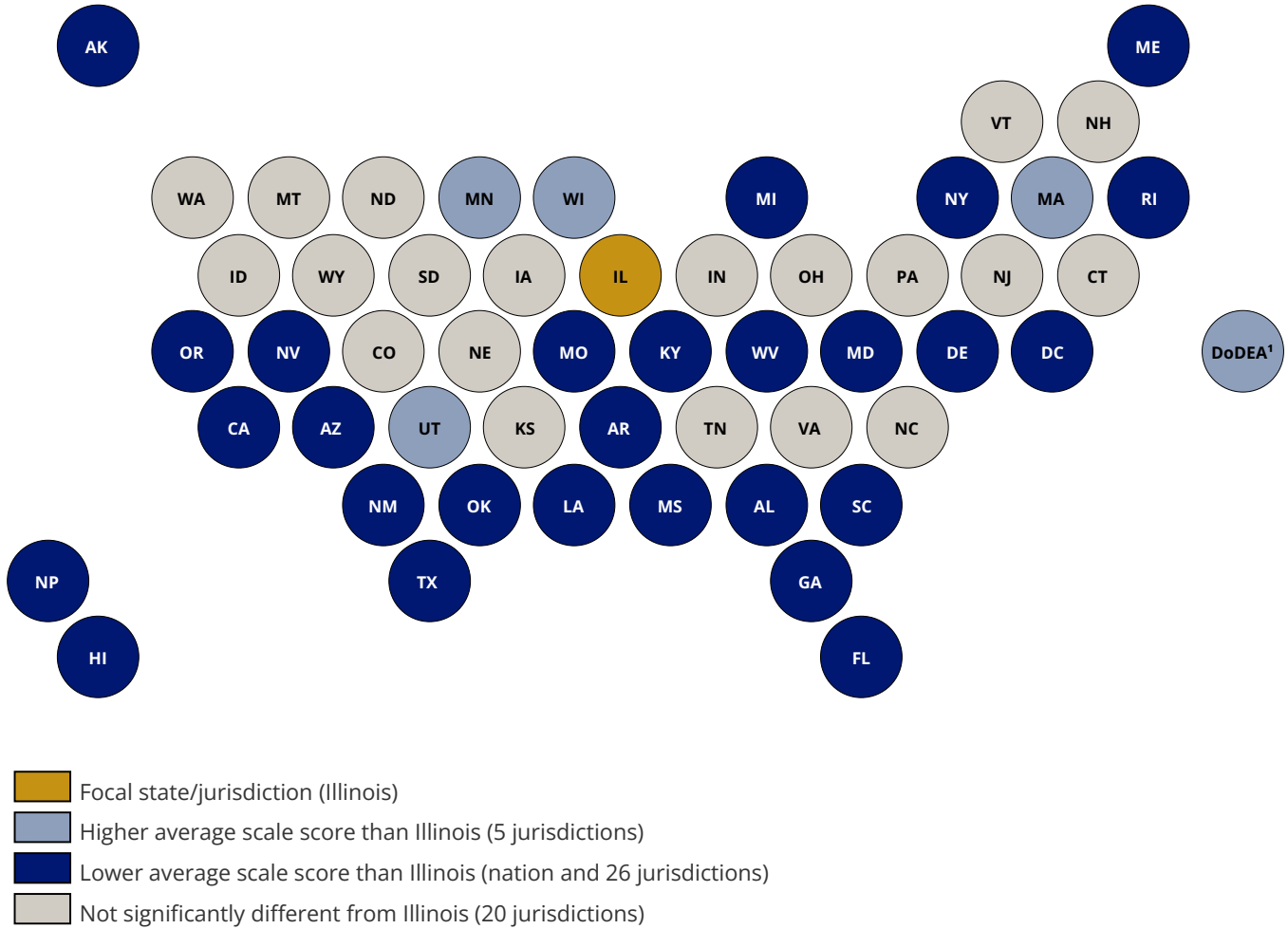
¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 2-B. Illinois's average scale score in NAEP mathematics for eighth-grade public school students compared with scores for the nation and other participating jurisdictions: 2024



¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment.

Comparisons by NAEP Achievement Levels

Figures 3-A and 3-B permit comparisons of all jurisdictions (and the nation) participating in the 2024 NAEP mathematics assessment in terms of percentages of grades 4 and 8 students performing at or above *NAEP Proficient*. The participating states and jurisdictions are grouped into categories that reflect whether the percentage of their students performing at or above *NAEP Proficient* (including *NAEP Advanced*) was found to be higher than, not significantly different from, or lower than the percentage in Illinois.

Note that the selected state is listed first in its category, and the other states and jurisdictions within each category are ranked by the percentage of students performing at or above *NAEP Proficient*. Statistical comparisons among states by NAEP achievement level can be conducted online by using the NAEP Data Explorer at <https://nces.ed.gov/nationsreportcard/naepdata/>.

Grade 4 NAEP Achievement-Level Comparison Results

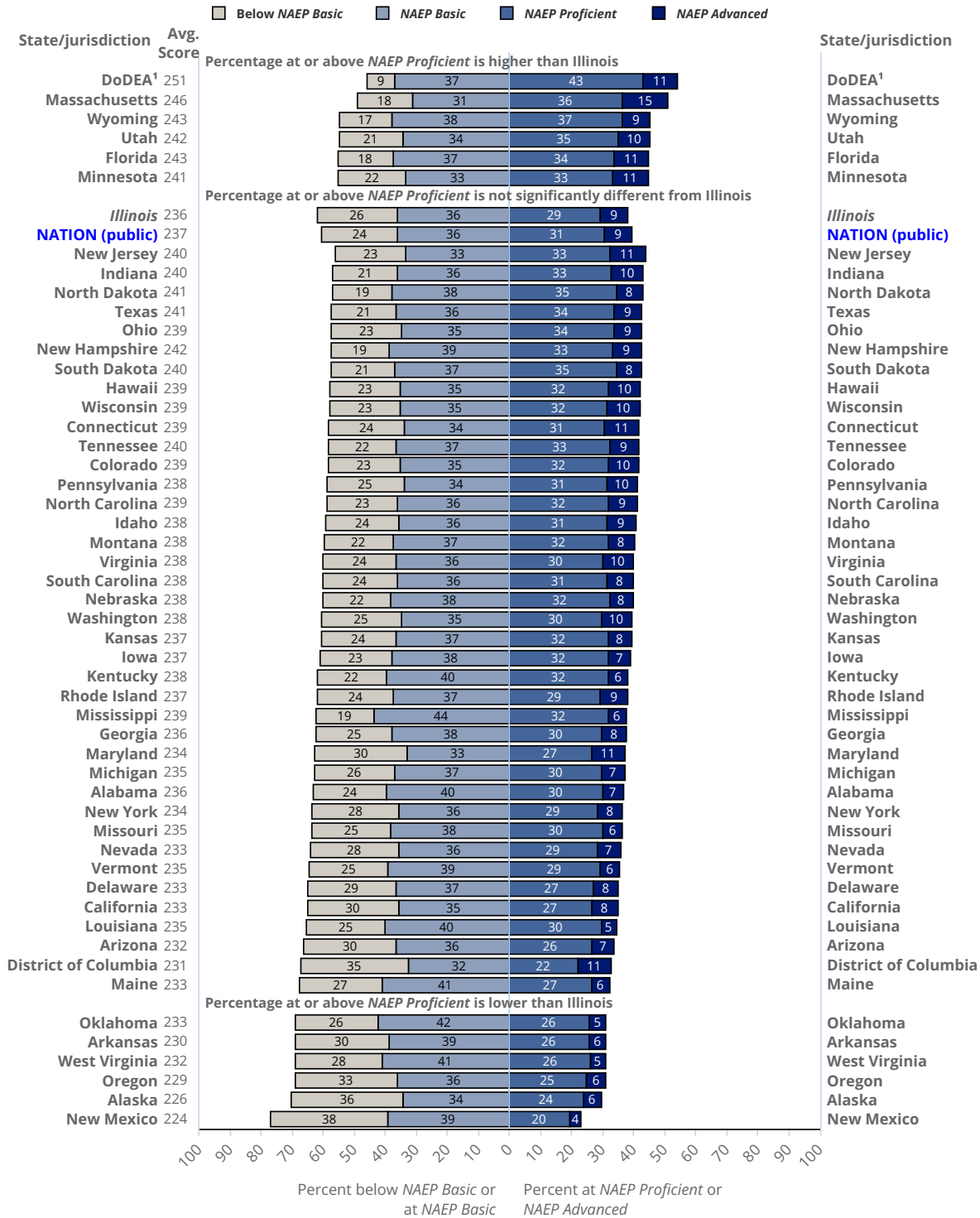
- The percentage of students performing at or above the *NAEP Proficient* level in Illinois was greater than 6 jurisdictions, not significantly different from 39 jurisdictions, and smaller than 6 jurisdictions.
- The percentage of students performing at or above the *NAEP Basic* level in Illinois was greater than 4 jurisdictions, not significantly different from 33 jurisdictions, and smaller than 14 jurisdictions (data not shown).

Grade 8 NAEP Achievement-Level Comparison Results

- The percentage of students performing at or above the *NAEP Proficient* level in Illinois was greater than 28 jurisdictions, not significantly different from 22 jurisdictions, and smaller than 1 jurisdiction.
- The percentage of students performing at or above the *NAEP Basic* level in Illinois was greater than 22 jurisdictions, not significantly different from 18 jurisdictions, and smaller than 11 jurisdictions (data not shown).

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 3-A. Average scale score in NAEP mathematics for fourth-grade public school students, percentage within each achievement level, and Illinois's percentage at or above NAEP Proficient compared with the nation and other participating jurisdictions: 2024



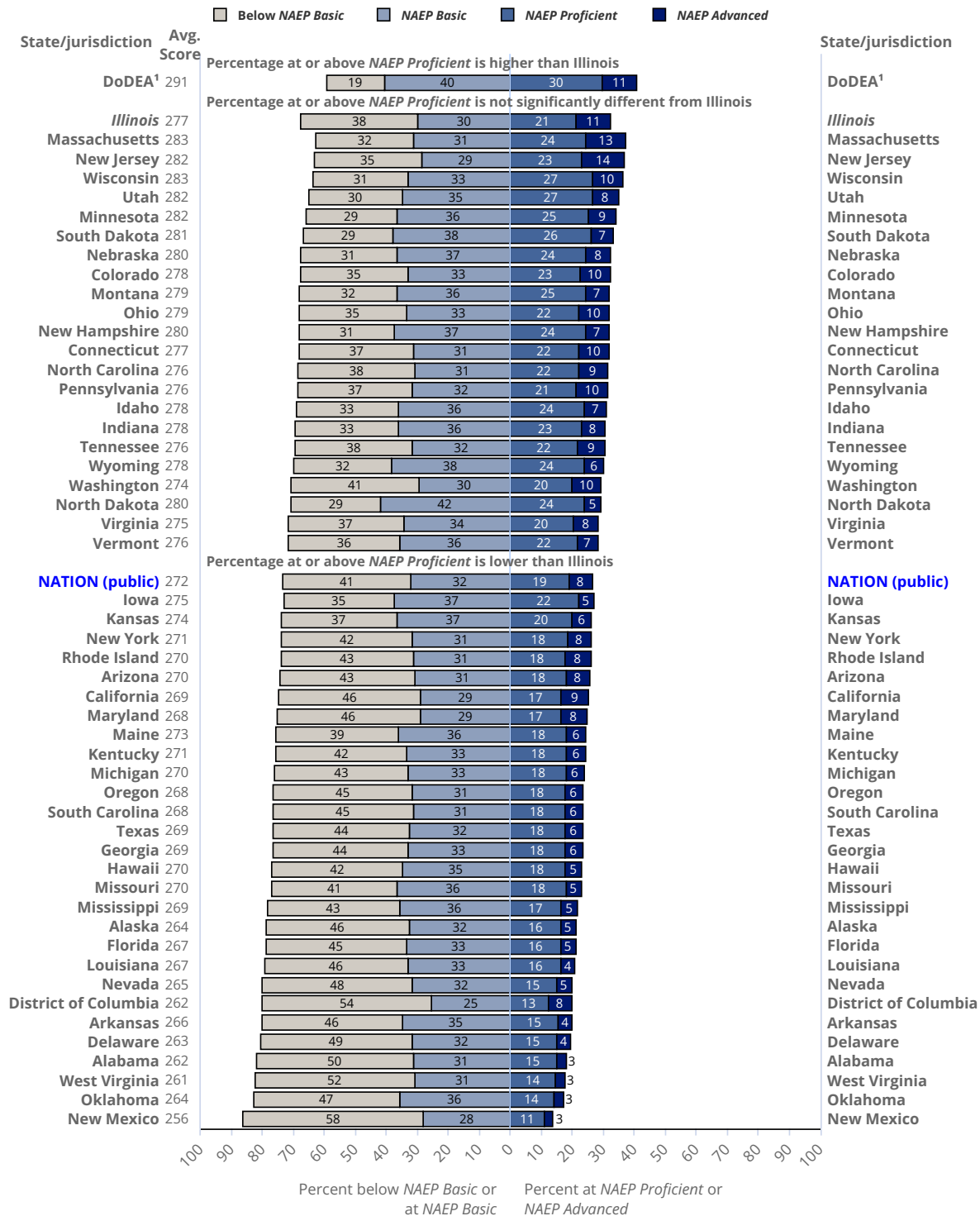
¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The bars above contain percentages of students in each NAEP mathematics achievement level. Achievement levels corresponding to each population of students are aligned at the point where the NAEP Proficient category begins, so that they may be compared at NAEP Proficient and above. Detail may not sum to totals because of rounding. All differences were calculated and tested using unrounded numbers. The shaded bars are graphed using unrounded numbers. Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Figure 3-B. Average scale score in NAEP mathematics for eighth-grade public school students, percentage within each achievement level, and Illinois's percentage at or above NAEP Proficient compared with the nation and other participating jurisdictions: 2024



¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The bars above contain percentages of students in each NAEP mathematics achievement level. Achievement levels corresponding to each population of students are aligned at the point where the NAEP Proficient category begins, so that they may be compared at NAEP Proficient and above. Detail may not sum to totals because of rounding. All differences were calculated and tested using unrounded numbers. The shaded bars are graphed using unrounded numbers. Significance tests used a multiple-comparison procedure based on all jurisdictions that participated.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment.

Mathematics Performance of Selected Student Groups

This section of the report presents trend results for public school students in Illinois and the nation by demographic characteristics. Student performance data are reported for

- race/ethnicity;
- gender;
- economically disadvantaged status;
- type of school location (for 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2022, and 2024); and
- parents' highest level of education (grade 8 only).

NAEP collects information on race/ethnicity, gender, and student economically disadvantaged status from school records. Type of school location is based on standard definitions established by the Office of Management and Budget using population and geographic information from the U.S. Census Bureau. Schools are assigned to these categories in the NCES Common Core of Data based on their physical address. The parent's highest level of education for grade 8 is derived from student questionnaires.

Results for each of the student groups are reported in tables that include the percentage of students in each group in the second column, and the average scale score in the third column. The columns to the right show the percentage of students below *NAEP Basic* and at or above each NAEP achievement level.

Results by students' race/ethnicity and gender include statements about score point differences between student groups (e.g., between White and Black students or White and Hispanic students, or between male and female students) in 2024 and in the first assessment year. Because these differences are calculated using unrounded values, they may differ slightly from what would be obtained by subtracting the rounded values that appear in the tables. Statements indicating a narrowing or widening of the gap in students' scores are only made if the change in the gap from the first assessment year to 2024 was found to be statistically significant.

The reader is cautioned against making simple causal inferences about group differences, as a complex mix of educational and socioeconomic factors may affect student performance. NAEP collects information on many additional variables, including school and home factors related to achievement. This information is in an interactive database available on the NAEP website <https://nces.ed.gov/nationsreportcard/naepdata/>.

Race/Ethnicity

Prior to 2011, student race/ethnicity was obtained from school records and reported for the six mutually exclusive categories shown below:

- American Indian/Alaska Native
- Asian/Pacific Islander
- Black
- Hispanic
- Unclassified (not shown in tables)
- White

Students who identified with more than one of the other five categories were classified as "Other" and included as part of the "Unclassified" category along with students who had a background other than the ones listed or whose race/ethnicity could not be determined.

In compliance with new standards from the U.S. Office of Management and Budget for collecting and reporting data on race/ethnicity, additional information was collected beginning in 2011 so results could be reported separately for Asian students, Native Hawaiian/Other Pacific Islander students, and students identifying with Two or More Races. Beginning in 2011, all of the students participating in NAEP were identified as one of the seven racial/ethnic categories listed below:

- American Indian or Alaska Native
- Asian
- Black or African American
- Hispanic
- Native Hawaiian or other Pacific Islander
- Two or More Races
- White

As in earlier years, students identified as Hispanic were classified as Hispanic in 2011 and subsequent assessment years even if they were also identified with another racial/ethnic group. Students who identified with two or more of the other racial/ethnic groups (e.g., White and Black) would have been classified as "Other" and reported as part of the "Unclassified" category prior to 2011 and classified as "Two or More Races" since 2011. Results for these students are presented under the "Two or More Races" category in the graphics and tables in the reports.

When comparing the results for racial/ethnic groups since 2011 to earlier assessment years, the data for Asian and Native Hawaiian/Other Pacific Islander students were combined into the Asian/Pacific Islander category.

Tables 3-A and 3-B show percentage of students, average scale scores, and percentages by NAEP achievement level for public school students at grades 4 and 8 in Illinois and the nation, by race/ethnicity.

Grade 4 Average Scale Score Results by Race/Ethnicity

- In 2024, White students in Illinois had an average scale score that was higher than the average scale scores of Black and Hispanic students, but was not significantly different from the average scale score of Asian/Pacific Islander students.
- In 2024, the average scale score of Asian/Pacific Islander students in Illinois was not significantly different from their respective scores in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the average scale scores of Black and White students in Illinois were higher than their respective score in 2000, but not significantly different from their respective scores in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the average scale score of Hispanic students in Illinois was higher than their respective score in 2000, but lower than their respective scores in 2013 and 2019, and not significantly different from their respective scores in 2003, 2005, 2007, 2009, 2011, 2015, 2017, and 2022.
- In 2024, Black students in Illinois had an average scale score that was lower than that of White students by 32 points. In 2000, the average scale score for Black students was lower than that of White students by 33 points.
- In 2024, Hispanic students in Illinois had an average scale score that was lower than that of White students by 26 points. In 2000, the average scale score for Hispanic students was lower than that of White students by 24 points.

Grade 4 NAEP Achievement-Level Results by Race/Ethnicity

- In 2024 in Illinois, the percentage of White students performing at or above *NAEP Proficient* was greater than the corresponding percentages of Black and Hispanic students, but was not significantly different from the percentage of Asian/Pacific Islander students.
- In 2024, the percentage of Asian/Pacific Islander students in Illinois performing at or above *NAEP Proficient* was not significantly different from the percentages of their respective peers in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of Black students in Illinois performing at or above *NAEP Proficient* was greater than the percentages of their respective peers in 2000 and 2003, but not significantly different from the percentages of their respective peers in 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of Hispanic students in Illinois performing at or above *NAEP Proficient* was greater than the percentages of their respective peers in 2000 and 2003, but smaller than the percentage in 2019, and not significantly different from the percentages of their respective peers in 2005, 2007, 2009, 2011, 2013, 2015, 2017, and 2022.
- In 2024, the percentage of White students in Illinois performing at or above *NAEP Proficient* was greater than the percentages of their respective peers in 2000, 2003, and 2005, but not significantly different from the percentages of their respective peers in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2000–2024

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
American Indian/Alaska Native							
2000 ¹	Nation (public)	1	‡	‡	‡	‡	‡
	Illinois	#	‡	‡	‡	‡	‡
2000	Nation (public)	1	207*	61*	39*	8*	#
	Illinois	#	‡	‡	‡	‡	‡
2003	Nation (public)	1*	224*	35*	65*	18	1
	Illinois	#	‡	‡	‡	‡	‡
2005	Nation (public)	1*	227*	31*	69*	22	2
	Illinois	#	‡	‡	‡	‡	‡
2007	Nation (public)	1*	229*	28*	72*	26*	3
	Illinois	#	‡	‡	‡	‡	‡
2009	Nation (public)	1*	227*	32*	68*	23	2
	Illinois	#	‡	‡	‡	‡	‡
2011	Nation (public)	1*	227*	32*	68*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1	228*	30*	70*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1	228*	30*	70*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1	228*	31*	69*	25	3
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	1	228*	32*	68*	25	4
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	1	220	42	58	19	3
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	1	220	43	57	20	2
	Illinois	#	‡	‡	‡	‡	‡

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 3-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2000–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Asian/Pacific Islander							
2000 ¹	Nation (public)	‡	‡	‡	‡	‡	‡
	Illinois	3	‡	‡	‡	‡	‡
2000	Nation (public)	‡	‡	‡	‡	‡	‡
	Illinois	2*	‡	‡	‡	‡	‡
2003	Nation (public)	4*	246*	13	87	48*	10*
	Illinois	2*	252	8	92	58	9*
2005	Nation (public)	4*	251*	11	89	54*	14*
	Illinois	4	258	8	92	66	20
2007	Nation (public)	5*	254*	9*	91*	59*	16*
	Illinois	4	257	5	95	62	17
2009	Nation (public)	5*	255	9*	91*	61	18*
	Illinois	5	265	3	97	73	25
2011	Nation (public)	5*	256	9*	91*	62	20*
	Illinois	4	257	7	93	63	19
2013	Nation (public)	5	258	9*	91*	64	23
	Illinois	5	266	5	95	73	31
2015	Nation (public)	5	256	10*	90*	61	22
	Illinois	5	262	6	94	69	25
2017	Nation (public)	6	258	10	90	64	24
	Illinois	5	263	8	92	69	28
2019	Nation (public)	5	261*	9*	91*	67	27
	Illinois	4	259	12	88	65	25
2022	Nation (public)	6	257	11	89	62	24
	Illinois	6	265	5	95	70	28
2024	Nation (public)	6	257	12	88	64	25
	Illinois	5	259	8	92	62	26

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2000–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Black							
2000 ¹	Nation (public)	17*	204*	64*	36*	5*	#
	Illinois	22	203*	66*	34*	4*	#
2000	Nation (public)	17	203*	65*	35*	4*	#*
	Illinois	22	202*	69*	31*	4*	#
2003	Nation (public)	17*	216*	46*	54*	10*	#*
	Illinois	20	210	56	44	7*	#
2005	Nation (public)	17*	220	40	60	13*	1*
	Illinois	19	212	54	46	9	1
2007	Nation (public)	17*	222*	37*	63*	15*	1*
	Illinois	19	216	46	54	9	#
2009	Nation (public)	16*	222*	37*	63*	15*	1*
	Illinois	19	216	46	54	11	1
2011	Nation (public)	16*	224*	34*	66*	17	1*
	Illinois	19	219	42	58	14	2
2013	Nation (public)	16*	224*	34*	66*	18	1*
	Illinois	17	220	41	59	16	1
2015	Nation (public)	15	224*	35*	65*	19	1*
	Illinois	18	215	49	51	12	1
2017	Nation (public)	15	223*	37*	63*	19	2
	Illinois	17	217	46	54	15	1
2019	Nation (public)	15*	224*	35*	65*	20	2
	Illinois	17	217	43	57	14	1
2022	Nation (public)	15	216*	46*	54*	15*	1*
	Illinois	12*	214	49	51	12	1
2024	Nation (public)	14	220	41	59	19	2
	Illinois	18	217	46	54	18	1

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 3-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2000–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Hispanic							
2000 ¹	Nation (public)	11*	209*	55*	45*	8*	#
	Illinois	17*	215*	46	54	7*	#*
2000	Nation (public)	16*	207*	59*	41*	7*	#*
	Illinois	20	211*	53	47	6*	#
2003	Nation (public)	19*	221*	38*	62*	15*	1*
	Illinois	18*	218	45	55	13*	#*
2005	Nation (public)	20*	225*	33	67	19*	1*
	Illinois	22	219	41	59	14	1
2007	Nation (public)	21*	227	31*	69*	22*	1*
	Illinois	19*	223	36	64	19	1
2009	Nation (public)	22*	227	30*	70*	21*	1*
	Illinois	22*	227	28*	72*	20	1
2011	Nation (public)	24*	229*	28*	72*	24*	2*
	Illinois	20*	226	30	70	20	1
2013	Nation (public)	25*	230*	27*	73*	26	2*
	Illinois	27	229*	29*	71*	25	3
2015	Nation (public)	26*	230*	27*	73*	26	3*
	Illinois	28	228	30	70	24	3
2017	Nation (public)	27*	229*	30*	70*	26	3
	Illinois	27	227	33	67	23	3
2019	Nation (public)	28*	231*	27*	73*	28	3
	Illinois	27	231*	26*	74*	28*	4
2022	Nation (public)	28	224*	37*	63*	21*	2*
	Illinois	29	222	39	61	19	2
2024	Nation (public)	29	227	34	66	27	4
	Illinois	27	223	38	62	20	3

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2000–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
White							
2000 ¹	Nation (public)	67*	234*	22*	78*	32*	3*
	Illinois	57*	236*	20	80	32*	3*
2000	Nation (public)	62*	233*	24*	76*	30*	3*
	Illinois	56*	235*	20	80	30*	3*
2003	Nation (public)	58*	243*	13*	87*	42*	5*
	Illinois	59*	244	13	87	44*	7*
2005	Nation (public)	57*	246*	11*	89*	47*	7*
	Illinois	54*	245	11	89	44*	6*
2007	Nation (public)	55*	248	9*	91*	51	8*
	Illinois	56*	248	9*	91*	50	8
2009	Nation (public)	54*	248	10*	90*	50	8*
	Illinois	51*	249	10*	90*	52	10
2011	Nation (public)	52*	249*	9*	91*	52	9*
	Illinois	53*	249	10	90	51	10
2013	Nation (public)	51*	250*	9*	91*	54*	10*
	Illinois	48	248	12	88	51	11
2015	Nation (public)	49*	248	10*	90*	51	10*
	Illinois	46	248	11	89	49	11
2017	Nation (public)	47*	248	12*	88*	51	11
	Illinois	47	249	13	87	52	13
2019	Nation (public)	46*	249*	12*	88*	52	12
	Illinois	46	246	14	86	51	11
2022	Nation (public)	45	245*	15	85	47*	10*
	Illinois	49	248	12	88	50	12
2024	Nation (public)	44	247	14	86	51	12
	Illinois	46	249	14	86	53	13

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214-248; *NAEP Proficient*, 249-281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. Special analyses raised concerns about the accuracy and precision of the mathematics results for Asian/Pacific Islander fourth-grade students in 2000 at the national level; therefore, they are omitted from this table. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

Grade 8 Average Scale Score Results by Race/Ethnicity

- In 2024, White students in Illinois had an average scale score that was higher than the average scale scores of Black and Hispanic students, but was lower than the average scale score of Asian/Pacific Islander students.
- In 2024, the average scale score of Asian/Pacific Islander students in Illinois was higher than their respective score in 1990, but not significantly different from their respective scores in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the average scale score of Black students in Illinois was higher than their respective score in 1990, but lower than their respective scores in 2011, 2013, 2015, and 2019, and not significantly different from their respective scores in 2000, 2003, 2005, 2007, 2009, 2017, and 2022.
- In 2024, the average scale score of Hispanic students in Illinois was higher than their respective score in 1990, but lower than their respective scores in 2009, 2011, 2013, 2015, 2017, and 2019, and not significantly different from their respective scores in 2000, 2003, 2005, 2007, and 2022.
- In 2024, the average scale score of White students in Illinois was higher than their respective score in 1990, but lower than their respective score in 2013, and not significantly different from their respective scores in 2000, 2003, 2005, 2007, 2009, 2011, 2015, 2017, 2019, and 2022.
- In 2024, Black students in Illinois had an average scale score that was lower than that of White students by 40 points. In 1990, the average scale score for Black students was lower than that of White students by 38 points.
- In 2024, Hispanic students in Illinois had an average scale score that was lower than that of White students by 28 points. In 1990, the average scale score for Hispanic students was lower than that of White students by 33 points.

Grade 8 NAEP Achievement-Level Results by Race/Ethnicity

- In 2024 in Illinois, the percentage of White students performing at or above *NAEP Proficient* was greater than the corresponding percentages of Black and Hispanic students, but was smaller than the percentage of Asian/Pacific Islander students.
- In 2024, the percentage of Asian/Pacific Islander students in Illinois performing at or above *NAEP Proficient* was greater than the percentage in 1990, but not significantly different from the percentages of their respective peers in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of Black students in Illinois performing at or above *NAEP Proficient* was greater than the percentage in 1990, but not significantly different from the percentages of their respective peers in 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of Hispanic students in Illinois performing at or above *NAEP Proficient* was greater than the percentages of their respective peers in 1990 and 2003, but not significantly different from the percentages of their respective peers in 2000, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024, the percentage of White students in Illinois performing at or above *NAEP Proficient* was greater than the percentages of their respective peers in 1990 and 2000, but not significantly different from the percentages of their respective peers in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 1990–2024

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
American Indian/Alaska Native							
1990 ¹	Nation (public)	1	‡	‡	‡	‡	‡
	Illinois	#	‡	‡	‡	‡	‡
2000 ¹	Nation (public)	1	264	47	53	14	2
	Illinois	#	‡	‡	‡	‡	‡
2000	Nation (public)	1	263	47	53	13	3
	Illinois	#	‡	‡	‡	‡	‡
2003	Nation (public)	1*	265*	46*	54*	16	2
	Illinois	#	‡	‡	‡	‡	‡
2005	Nation (public)	1*	266*	45*	55*	14	2
	Illinois	#	‡	‡	‡	‡	‡
2007	Nation (public)	1*	265*	44*	56*	17*	2
	Illinois	#	‡	‡	‡	‡	‡
2009	Nation (public)	1*	267*	43*	57*	20*	3
	Illinois	#	‡	‡	‡	‡	‡
2011	Nation (public)	1*	266*	45*	55*	17*	4
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1*	270*	40*	60*	21*	3
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1*	267*	43*	57*	19*	3
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1	268*	43*	57*	19*	4
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	1	263*	48*	52*	15	3
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	1	257	56	44	11	1
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	1	253	60	40	12	3
	Illinois	#	‡	‡	‡	‡	‡

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 3-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 1990–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Asian/Pacific Islander							
1990 ¹	Nation (public)	2*	275*	36*	64*	30*	6*
	Illinois	2*	279*	32*	68*	31*	3*
2000 ¹	Nation (public)	4*	286*	27*	73*	40*	12*
	Illinois	3*	‡	‡	‡	‡	‡
2000	Nation (public)	4*	287*	27*	73*	40*	12*
	Illinois	3*	‡	‡	‡	‡	‡
2003	Nation (public)	4*	289*	23*	77*	42*	12*
	Illinois	3*	302	11	89	58	15*
2005	Nation (public)	5*	294*	19	81	46*	16*
	Illinois	4*	300	10	90	50	15*
2007	Nation (public)	5*	296*	18	82	49*	17*
	Illinois	5	303	13	87	55	23
2009	Nation (public)	5*	300*	16	84	53	20*
	Illinois	4*	304	11	89	60	19
2011	Nation (public)	6*	302	15	85	55	22*
	Illinois	5	314	8	92	67	31
2013	Nation (public)	5*	306	13*	87*	60	25
	Illinois	5	313	11	89	69	33
2015	Nation (public)	6*	305	14*	86*	58	25
	Illinois	5	309	12	88	59	28
2017	Nation (public)	6	310*	14*	86*	62*	30
	Illinois	4	313	13	87	65	33
2019	Nation (public)	6	309*	15*	85*	61*	32
	Illinois	6	320	8	92	73	36
2022	Nation (public)	6	304	16	84	56	26
	Illinois	7	308	13	87	61	30
2024	Nation (public)	6	305	18	82	57	29
	Illinois	6	308	13	87	61	29

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 1990–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Black							
1990 ¹	Nation (public)	16*	236*	79*	21*	5*	#
	Illinois	19	232*	81*	19*	3*	#
2000 ¹	Nation (public)	14	245*	70*	30*	5*	#*
	Illinois	19	256	58	42	7	#
2000	Nation (public)	17*	243*	70*	30*	5*	#*
	Illinois	20	252	59	41	8	#
2003	Nation (public)	17*	252	61	39	7*	#*
	Illinois	20*	249	66	34	6	#
2005	Nation (public)	17*	254*	59*	41*	8	1*
	Illinois	21*	249	66	34	6	#
2007	Nation (public)	17*	259*	53*	47*	11	1*
	Illinois	16	253	59	41	7	#
2009	Nation (public)	16*	260*	51*	49*	12*	1
	Illinois	18	255	59	41	9	1
2011	Nation (public)	16*	262*	50*	50*	13*	1
	Illinois	18	260*	52*	48*	10	1
2013	Nation (public)	15	263*	49*	51*	14*	2
	Illinois	17	260*	51*	49*	12	1
2015	Nation (public)	15	260*	53*	47*	12*	1
	Illinois	16	261*	51*	49*	12	1
2017	Nation (public)	15	260*	54*	46*	13*	2
	Illinois	15	257	58	42	11	1
2019	Nation (public)	15	259*	54*	46*	13*	2*
	Illinois	18	262*	51*	49*	14	2
2022	Nation (public)	15	252	62	38	9	1
	Illinois	16	254	62	38	8	1
2024	Nation (public)	15	251	63	37	10	2
	Illinois	14	250	65	35	9	2

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 3-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 1990–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Hispanic							
1990 ¹	Nation (public)	7*	245*	67*	33*	7*	1
	Illinois	8*	238*	76*	24*	3*	#
2000 ¹	Nation (public)	11*	252*	60	40	8*	#*
	Illinois	16*	259	51	49	9*	#
2000	Nation (public)	14*	252*	60*	40*	8*	#*
	Illinois	15*	258	49	51	11	1
2003	Nation (public)	15*	258	53	47	11*	1*
	Illinois	15*	259	52	48	9*	#*
2005	Nation (public)	17*	261*	50*	50*	13	1*
	Illinois	14*	265	45	55	13	1
2007	Nation (public)	19*	264*	46*	54*	15	2*
	Illinois	18*	265	45	55	13	1*
2009	Nation (public)	21*	266*	44*	56*	17*	2
	Illinois	18*	269*	41*	59*	17	1*
2011	Nation (public)	23*	269*	40*	60*	20*	3
	Illinois	24	272*	36*	64*	19	3
2013	Nation (public)	23*	271*	38*	62*	21*	3
	Illinois	24	272*	36*	64*	22	2
2015	Nation (public)	25*	269*	40*	60*	19*	3
	Illinois	26	273*	35*	65*	22	3
2017	Nation (public)	25*	268*	43*	57*	20*	3*
	Illinois	27	272*	40*	60*	21	4
2019	Nation (public)	27*	268*	43*	57*	19*	3*
	Illinois	25	273*	38*	62*	24	5
2022	Nation (public)	29	261*	52*	48*	14	2
	Illinois	28	262	51	49	14	2
2024	Nation (public)	29	257	55	45	14	2
	Illinois	29	262	52	48	18	4

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 3-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 1990–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
White							
1990 ¹	Nation (public)	73*	269*	41*	59*	18*	3*
	Illinois	70*	270*	39*	61*	18*	2*
2000 ¹	Nation (public)	69*	284	24*	76*	33*	6*
	Illinois	61*	287	20	80	37*	5*
2000	Nation (public)	63*	283	25	75	33*	6*
	Illinois	61*	285	22	78	35*	5*
2003	Nation (public)	62*	287*	21*	79*	36	7*
	Illinois	62*	289	20	80	40	8*
2005	Nation (public)	60*	288*	21*	79*	37	7*
	Illinois	61*	289	18*	82*	39	8*
2007	Nation (public)	58*	290*	19*	81*	41*	9
	Illinois	60*	291	19	81	41	9*
2009	Nation (public)	56*	292*	18*	82*	43*	10
	Illinois	58*	294	15*	85*	44	10
2011	Nation (public)	54*	293*	17*	83*	43*	10
	Illinois	51	294	16*	84*	44	11
2013	Nation (public)	53*	293*	17*	83*	44*	11
	Illinois	52*	296*	15*	85*	48	13
2015	Nation (public)	51*	291*	19*	81*	42*	10
	Illinois	50	290	18*	82*	40	9*
2017	Nation (public)	50*	292*	20*	80*	43*	13*
	Illinois	51	291	21	79	42	13
2019	Nation (public)	48*	291*	21*	79*	43*	13*
	Illinois	48	291	22	78	42	12
2022	Nation (public)	45	284	28	72	34*	9*
	Illinois	45	286	26	74	36	10
2024	Nation (public)	44	284	28	72	37	10
	Illinois	47	290	25	75	44	15

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

Tables 4-A and 4-B show percentage of students, average scale scores, and percentages by NAEP achievement level for the seven racial/ethnic categories used since 2011: American Indian/Alaska Native, Asian, Black, Hispanic, Native Hawaiian/Other Pacific Islander, Two or More Races, and White at grades 4 and 8 in Illinois and the nation.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
American Indian/Alaska Native							
2011	Nation (public)	1	227*	32*	68*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1	228*	30*	70*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1	228*	30*	70*	24	2
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1	228*	31*	69*	25	3
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	1	228*	32*	68*	25	4
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	1	220	42	58	19	3
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	1	220	43	57	20	2
	Illinois	#	‡	‡	‡	‡	‡
Asian							
2011	Nation (public)	5*	257	8*	92*	64	21*
	Illinois	4	258	6	94	65	20
2013	Nation (public)	5*	260	7*	93*	67	24
	Illinois	5	266	4	96	73	31
2015	Nation (public)	5*	259	8*	92*	64	23
	Illinois	5	262	6	94	70	25
2017	Nation (public)	5	260	8	92	67	26
	Illinois	5	263	8	92	70	28
2019	Nation (public)	5	263*	7*	93*	70	29
	Illinois	4	259	12	88	65	25
2022	Nation (public)	6	259	9	91	64	25
	Illinois	6	265	6	94	70	28
2024	Nation (public)	6	259	10	90	66	26
	Illinois	5	259	8	92	62	26

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 4-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Black							
2011	Nation (public)	16*	224*	34*	66*	17	1*
	Illinois	19	219	42	58	14	2
2013	Nation (public)	16*	224*	34*	66*	18	1*
	Illinois	17	220	41	59	16	1
2015	Nation (public)	15	224*	35*	65*	19	1*
	Illinois	18	215	49	51	12	1
2017	Nation (public)	15	223*	37*	63*	19	2
	Illinois	17	217	46	54	15	1
2019	Nation (public)	15	224*	35*	65*	20	2
	Illinois	17	217	43	57	14	1
2022	Nation (public)	15	216*	46*	54*	15*	1*
	Illinois	12*	214	49	51	12	1
2024	Nation (public)	14	220	41	59	19	2
	Illinois	18	217	46	54	18	1
Hispanic							
2011	Nation (public)	24*	229*	28*	72*	24*	2*
	Illinois	20*	226	30	70	20	1
2013	Nation (public)	25*	230*	27*	73*	26	2*
	Illinois	27	229*	29*	71*	25	3
2015	Nation (public)	26*	230*	27*	73*	26	3*
	Illinois	28	228	30	70	24	3
2017	Nation (public)	27*	229*	30*	70*	26	3
	Illinois	27	227	33	67	23	3
2019	Nation (public)	28*	231*	27*	73*	28	3
	Illinois	27	231*	26*	74*	28*	4
2022	Nation (public)	28	224*	37*	63*	21*	2*
	Illinois	29	222	39	61	19	2
2024	Nation (public)	29	227	34	66	27	4
	Illinois	27	223	38	62	20	3

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Native Hawaiian/Other Pacific Islander							
2011	Nation (public)	#	235*	24*	76*	33*	7
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	#	235*	23*	77*	32	4
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	#*	226	35	65	24	3
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	#*	228*	30*	70*	27	4
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	#	230*	30*	70*	29	5
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	#	222	40	60	18	2
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	#	221	44	56	21	2
	Illinois	#	‡	‡	‡	‡	‡
Two or More Races							
2011	Nation (public)	2*	244	15*	85*	43	9
	Illinois	3*	244	15	85	45	8
2013	Nation (public)	3*	244*	14*	86*	45	9
	Illinois	3*	246	13	87	46	12
2015	Nation (public)	3*	244	15*	85*	44	9
	Illinois	3*	244	17	83	47	11
2017	Nation (public)	4*	244	16*	84*	44	10
	Illinois	3	243	16	84	40	11
2019	Nation (public)	4*	243	17*	83*	44	10
	Illinois	4	238	24	76	40	12
2022	Nation (public)	5*	238*	23	77	38*	9
	Illinois	3	250	14	86	53	15
2024	Nation (public)	5	242	20	80	44	11
	Illinois	4	240	21	79	45	10

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
White							
2011	Nation (public)	52*	249*	9*	91*	52	9*
	Illinois	53*	249	10	90	51	10
2013	Nation (public)	51*	250*	9*	91*	54*	10*
	Illinois	48	248	12	88	51	11
2015	Nation (public)	49*	248	10*	90*	51	10*
	Illinois	46	248	11	89	49	11
2017	Nation (public)	47*	248*	12*	88*	51	11
	Illinois	47	249	13	87	52	13
2019	Nation (public)	46*	249*	12*	88*	52	12
	Illinois	46	246	14	86	51	11
2022	Nation (public)	45	245*	15	85	47*	10*
	Illinois	49	248	12	88	50	12
2024	Nation (public)	44	247	14	86	51	12
	Illinois	46	249	14	86	53	13

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214–248; *NAEP Proficient*, 249–281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2011–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
American Indian/Alaska Native							
2011	Nation (public)	1*	266*	45*	55*	17*	4
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1*	270*	40*	60*	21*	3
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1*	267*	43*	57*	19*	3
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1	268*	43*	57*	19*	4
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	1	263*	48*	52*	15	3
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	1	257	56	44	11	1
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	1	253	60	40	12	3
	Illinois	#	‡	‡	‡	‡	‡
Asian							
2011	Nation (public)	5*	305	12*	88*	58	24*
	Illinois	4	315	7	93	68	32
2013	Nation (public)	5*	308	12*	88*	62	27
	Illinois	5	313	10	90	70	34
2015	Nation (public)	5*	307	12*	88*	60	26
	Illinois	5	309	10	90	59	28
2017	Nation (public)	5	312*	12*	88*	65*	32
	Illinois	4	314	13	87	66	34
2019	Nation (public)	6	313*	12*	88*	64*	33
	Illinois	6	320	8	92	73	36
2022	Nation (public)	6	306	14	86	58	27
	Illinois	7	308	12	88	62	31
2024	Nation (public)	6	307	16	84	59	30
	Illinois	6	309	13	87	61	30

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 4-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Black							
2011	Nation (public)	16*	262*	50*	50*	13*	1
	Illinois	18	260*	52*	48*	10	1
2013	Nation (public)	15	263*	49*	51*	14*	2
	Illinois	17	260*	51*	49*	12	1
2015	Nation (public)	15	260*	53*	47*	12*	1
	Illinois	16	261*	51*	49*	12	1
2017	Nation (public)	15	260*	54*	46*	13*	2
	Illinois	15	257	58	42	11	1
2019	Nation (public)	15	259*	54*	46*	13*	2
	Illinois	18	262*	51*	49*	14	2
2022	Nation (public)	15	252	62	38	9	1
	Illinois	16	254	62	38	8	1
2024	Nation (public)	15	251	63	37	10	2
	Illinois	14	250	65	35	9	2
Hispanic							
2011	Nation (public)	23*	269*	40*	60*	20*	3
	Illinois	24	272*	36*	64*	19	3
2013	Nation (public)	23*	271*	38*	62*	21*	3
	Illinois	24	272*	36*	64*	22	2
2015	Nation (public)	25*	269*	40*	60*	19*	3
	Illinois	26	273*	35*	65*	22	3
2017	Nation (public)	25*	268*	43*	57*	20*	3*
	Illinois	27	272*	40*	60*	21	4
2019	Nation (public)	27*	268*	43*	57*	19*	3*
	Illinois	25	273*	38*	62*	24	5
2022	Nation (public)	29	261*	52*	48*	14	2
	Illinois	28	262	51	49	14	2
2024	Nation (public)	29	257	55	45	14	2
	Illinois	29	262	52	48	18	4

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Native Hawaiian/Other Pacific Islander							
2011	Nation (public)	#	265*	45*	55*	19	3
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	#	274*	34*	66*	24*	4
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	#	277*	35*	65*	30*	6
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	#	272*	38*	62*	23*	5
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	#	263	47*	53*	18	4
	Illinois	#	‡	‡	‡	‡	‡
2022	Nation (public)	#	262	54	46	15	5
	Illinois	#	‡	‡	‡	‡	‡
2024	Nation (public)	#	257	57	43	15	4
	Illinois	#	‡	‡	‡	‡	‡
Two or More Races							
2011	Nation (public)	2*	286*	24*	76*	37*	10
	Illinois	2*	281	30	70	33	7
2013	Nation (public)	2*	286*	24*	76*	37*	10
	Illinois	3*	285	26	74	33	12
2015	Nation (public)	2*	283*	28*	72*	35*	9
	Illinois	2*	‡	‡	‡	‡	‡
2017	Nation (public)	3*	285*	28*	72*	36*	12
	Illinois	3	287	32	68	39	19
2019	Nation (public)	3*	285*	28*	72*	36*	11
	Illinois	3	286	29	71	38	17
2022	Nation (public)	4*	275	37	63	27	6*
	Illinois	4	276	36	64	27	3
2024	Nation (public)	5	277	38	62	30	9
	Illinois	4	286	38	62	36	18

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 4-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by race/ethnicity, year and jurisdiction: Various years, 2011–2024—Continued

Race/ethnicity, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
White							
2011	Nation (public)	54*	293*	17*	83*	43*	10
	Illinois	51	294	16*	84*	44	11
2013	Nation (public)	53*	293*	17*	83*	44*	11
	Illinois	52*	296*	15*	85*	48	13
2015	Nation (public)	51*	291*	19*	81*	42*	10
	Illinois	50	290	18*	82*	40	9*
2017	Nation (public)	50*	292*	20*	80*	43*	13*
	Illinois	51	291	21	79	42	13
2019	Nation (public)	48*	291*	21*	79*	43*	13*
	Illinois	48	291	22	78	42	12
2022	Nation (public)	45	284	28	72	34*	9*
	Illinois	45	286	26	74	36	10
2024	Nation (public)	44	284	28	72	37	10
	Illinois	47	290	25	75	44	15

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2011–2024 Mathematics Assessments.

Gender

Results are reported separately for male and female students.

Tables 5-A and 5-B show percentage of students, average scale scores, and percentages by NAEP achievement level for public school students at grades 4 and 8 in Illinois and the nation, by gender.

Grade 4 Average Scale Score Results by Gender

- In 2024, male students in Illinois had an average scale score in mathematics (238) that was not significantly different from that of female students (234). In 2000, male students in Illinois had an average scale score in mathematics (224) that was not significantly different from that of female students (222).
- In 2024, male students in Illinois had an average scale score in mathematics (238) that was not significantly different from that of male students in public schools across the nation (240). Similarly, female students in Illinois had an average scale score (234) that was not significantly different from that of female students across the nation (235).
- In Illinois, the average scale score of male students in 2024 was higher than the score of male students in 2000, but not significantly different from the scores of male students in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In Illinois, the average scale score of female students in 2024 was higher than the score of female students in 2000, but not significantly different from the scores of female students in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

Grade 4 NAEP Achievement-Level Results by Gender

- In the 2024 assessment, 40 percent of male students and 36 percent of female students performed at or above *NAEP Proficient* in Illinois. The difference between these percentages was not statistically significant.
- The percentage of male students in Illinois's public schools who were at or above *NAEP Proficient* in 2024 (40 percent) was not significantly different from that of male students in the nation (43 percent).
- The percentage of female students in Illinois's public schools who were at or above *NAEP Proficient* in 2024 (36 percent) was not significantly different from that of female students in the nation (36 percent).
- In Illinois, the percentage of male students performing at or above *NAEP Proficient* in 2024 was greater than the corresponding percentages of students in 2000, 2003, and 2005, but not significantly different from the corresponding percentages of students in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In Illinois, the percentage of female students performing at or above *NAEP Proficient* in 2024 was greater than the corresponding percentages of students in 2000 and 2003, but not significantly different from the corresponding percentages of students in 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 5-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by gender, year and jurisdiction: Various years, 2000–2024

Gender, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Male							
2000 ¹	Nation (public)	51	227*	32*	68*	27*	3*
	Illinois	50	227*	32*	68*	25*	2*
2000	Nation (public)	51	225*	35*	65*	25*	3*
	Illinois	52	224*	36*	64*	23*	2*
2003	Nation (public)	51	235*	23	77	34*	5*
	Illinois	52	234	26	74	34*	5*
2005	Nation (public)	51	238*	20*	80*	37*	6*
	Illinois	51	234	25	75	33*	5*
2007	Nation (public)	51	240	18*	82*	41*	7*
	Illinois	50	239	21*	79*	40	7
2009	Nation (public)	51	240	19*	81*	40*	7*
	Illinois	50	240	20*	80*	41	7
2011	Nation (public)	51	241	18*	82*	41*	7*
	Illinois	52	240	19*	81*	39	8
2013	Nation (public)	51	242*	18*	82*	42	8*
	Illinois	51	239	22	78	39	9
2015	Nation (public)	51	241	19*	81*	41*	8*
	Illinois	51	238	24	76	38	9
2017	Nation (public)	51	240	21*	79*	41*	9*
	Illinois	50	240	24	76	41	11
2019	Nation (public)	51	242*	20*	80*	43	10
	Illinois	50	239	22	78	41	10
2022	Nation (public)	51	238*	24*	76*	39*	9*
	Illinois	51	240	23	77	42	12
2024	Nation (public)	51	240	23	77	43	11
	Illinois	51	238	25	75	40	11

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 5-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by gender, year and jurisdiction: Various years, 2000–2024—Continued

Gender, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Female							
2000 ¹	Nation (public)	49	225*	34*	66*	22*	2*
	Illinois	50	222*	37*	63*	17*	1*
2000	Nation (public)	49	223*	38*	62*	20*	1*
	Illinois	48	222*	39*	61*	17*	1*
2003	Nation (public)	49	233*	25	75	29*	3*
	Illinois	48	232	28	72	29*	4
2005	Nation (public)	49	236*	21*	79*	33*	4*
	Illinois	49	232	28	72	30	4
2007	Nation (public)	49	238*	19*	81*	36	4*
	Illinois	50	235	22*	78*	33	4
2009	Nation (public)	49	238*	19*	81*	37	5*
	Illinois	50	237	21*	79*	35	6
2011	Nation (public)	49	239*	18*	82*	39*	6*
	Illinois	48	238	21*	79*	37	6
2013	Nation (public)	49	241*	18*	82*	40*	7
	Illinois	49	239	21*	79*	39	8
2015	Nation (public)	49	239*	19*	81*	38*	6*
	Illinois	49	237	22	78	36	6
2017	Nation (public)	49	238*	21*	79*	38*	7
	Illinois	50	237	24	76	36	7
2019	Nation (public)	49	238*	20*	80*	38*	7
	Illinois	50	236	23	77	36	6
2022	Nation (public)	49	232*	28*	72*	31*	5*
	Illinois	49	234	26	74	33	6
2024	Nation (public)	49	235	26	74	36	7
	Illinois	49	234	27	73	36	7

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214-248; *NAEP Proficient*, 249-281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

Grade 8 Average Scale Score Results by Gender

- In 2024, male students in Illinois had an average scale score in mathematics (280) that was higher than that of female students (274). In 1990, male students in Illinois had an average scale score in mathematics (261) that was not significantly different from that of female students (260).
- In 2024, male students in Illinois had an average scale score in mathematics (280) that was higher than that of male students in public schools across the nation (274). Similarly, female students in Illinois had an average scale score (274) that was higher than that of female students across the nation (270).
- In Illinois, the average scale score of male students in 2024 was higher than the scores of male students in 1990 and 2000, but lower than the scores of male students in 2009 and 2013, and not significantly different from the scores of male students in 2003, 2005, 2007, 2011, 2015, 2017, 2019, and 2022.
- In Illinois, the average scale score of female students in 2024 was higher than the score of female students in 1990, but lower than the scores of female students in 2007, 2009, 2011, 2013, 2015, and 2019, and not significantly different from the scores of female students in 2000, 2003, 2005, 2017, and 2022.

Grade 8 NAEP Achievement-Level Results by Gender

- In the 2024 assessment, 36 percent of male students and 28 percent of female students performed at or above *NAEP Proficient* in Illinois. The difference between these percentages was statistically significant.
- The percentage of male students in Illinois's public schools who were at or above *NAEP Proficient* in 2024 (36 percent) was greater than that of male students in the nation (29 percent).
- The percentage of female students in Illinois's public schools who were at or above *NAEP Proficient* in 2024 (28 percent) was greater than that of female students in the nation (24 percent).
- In Illinois, the percentage of male students performing at or above *NAEP Proficient* in 2024 was greater than the corresponding percentages of students in 1990, 2000, 2005, and 2022, but not significantly different from the corresponding percentages of students in 2003, 2007, 2009, 2011, 2013, 2015, 2017, and 2019.
- In Illinois, the percentage of female students performing at or above *NAEP Proficient* in 2024 was greater than the percentage of students in 1990, but smaller than the percentage of students in 2013, and not significantly different from the corresponding percentages of students in 2000, 2003, 2005, 2007, 2009, 2011, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 5-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by gender, year and jurisdiction: Various years, 1990–2024

Gender, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Male							
1990 ¹	Nation (public)	51	262*	49*	51*	17*	2*
	Illinois	52	261*	50*	50*	15*	2*
2000 ¹	Nation (public)	50	276	34*	66*	29	6*
	Illinois	51	276	33	67	26*	4*
2000	Nation (public)	50	273	38	62	26	5*
	Illinois	52	272*	35	65	24*	3*
2003	Nation (public)	50*	277*	33*	67*	29	6*
	Illinois	50*	278	33	67	31	7*
2005	Nation (public)	51*	278*	32*	68*	30	6*
	Illinois	51	279	30*	70*	30*	6*
2007	Nation (public)	51*	281*	29*	71*	33*	8*
	Illinois	50	282	29*	71*	33	8*
2009	Nation (public)	51*	283*	28*	72*	34*	8
	Illinois	51*	284*	26*	74*	35	9*
2011	Nation (public)	51*	283*	28*	72*	34*	9
	Illinois	51	283	28*	72*	33	10
2013	Nation (public)	51	284*	27*	73*	35*	9
	Illinois	51	285*	27*	73*	37	10
2015	Nation (public)	51*	281*	30*	70*	32*	8
	Illinois	51	282	28*	72*	34	8*
2017	Nation (public)	51	282*	31*	69*	34*	11*
	Illinois	51	284	30*	70*	36	12
2019	Nation (public)	51	280*	33*	67*	33*	10*
	Illinois	51	283	31*	69*	35	12
2022	Nation (public)	51	274	39	61	27*	8*
	Illinois	50*	278	36	64	29*	9*
2024	Nation (public)	51	274	40	60	29	9
	Illinois	52	280	37	63	36	13

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 5-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by gender, year and jurisdiction: Various years, 1990–2024—Continued

Gender, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Female							
1990 ¹	Nation (public)	49	261*	49*	51*	14*	2*
	Illinois	48	260*	49*	51*	14*	1*
2000 ¹	Nation (public)	50	273*	36*	64*	24	4*
	Illinois	49	278	31*	69*	28	4*
2000	Nation (public)	50	271	38*	62*	23	4*
	Illinois	48	278	31*	69*	28	4*
2003	Nation (public)	50*	275*	34*	66*	26	4*
	Illinois	50*	276	34	66	28	5*
2005	Nation (public)	49*	277*	33*	67*	27*	5*
	Illinois	49	276	34*	66*	27	5*
2007	Nation (public)	49*	279*	30*	70*	29*	6*
	Illinois	50	279*	31*	69*	29	6
2009	Nation (public)	49*	281*	29*	71*	31*	7
	Illinois	49*	280*	29*	71*	31	6
2011	Nation (public)	49*	282*	28*	72*	33*	7
	Illinois	49	283*	26*	74*	32	7
2013	Nation (public)	49	283*	27*	73*	34*	7*
	Illinois	49	285*	26*	74*	36*	9
2015	Nation (public)	49*	281*	29*	71*	32*	7
	Illinois	49	282*	27*	73*	31	6
2017	Nation (public)	49	282*	31*	69*	33*	9*
	Illinois	49	279	33*	67*	29	8
2019	Nation (public)	49	282*	31*	69*	33*	9*
	Illinois	49	282*	30*	70*	32	9
2022	Nation (public)	49	272*	40*	60*	24	6*
	Illinois	50*	273	41	59	24	6
2024	Nation (public)	49	270	43	57	24	6
	Illinois	48	274	39	61	28	8

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

Economically Disadvantaged Status

NAEP collects data on eligibility for the federal program providing free or reduced-price school lunches. The free/reduced-price lunch component of the National School Lunch Program (NSLP) offered through the U.S. Department of Agriculture (USDA) is designed to ensure that children near or below the poverty line receive nourishing meals. Eligibility is determined through the USDA's Income Eligibility Guidelines, and data for this category of students are included as an indicator of lower family income. NAEP first collected information on participation in this program in 1996.

As a result of the passage of the [Healthy, Hunger-Free Kids Act of 2010](#), schools can use a universal meal service option, the "Community Eligibility Provision" (CEP). Through CEP, eligible schools can provide meal service to all students at no charge, regardless of economic status and without the need to collect eligibility data through household applications. CEP became available nationwide in the 2014–2015 school year. Beginning in 2015, NAEP switched from using the free meal application-based NSLP eligibility criteria (as used in the NAEP assessments prior to the 2015) to state-defined economically disadvantaged status, since the free meal application criteria were no longer administered in CEP schools. Changes in the operation of NSLP led the NAEP program to revise its approach to data collection for NSLP eligibility in order to account for the changes due to the introduction of CEP. Beginning with the 2024 assessment, the previously reported NSLP eligibility variable is relabeled as economically disadvantaged (ED) status. The NSLP eligible (students eligible for free or reduced-price lunch) category is relabeled as economically disadvantaged, and the NSLP not eligible category is relabeled as not economically disadvantaged. The information not available label remains unchanged.

Tables 6-A and 6-B show percentage of students, average scale scores, and percentages by NAEP achievement level for public school students at grades 4 and 8 in Illinois and the nation, by economically disadvantaged status.

Grade 4 Average Scale Score Results by Economically Disadvantaged Status

- In 2024, students in Illinois identified as economically disadvantaged had an average mathematics scale score of 222. This was lower than that of students in Illinois identified as not economically disadvantaged for this program (251).
- In 2024, students in Illinois who were identified as economically disadvantaged had an average scale score that was lower than that of students who were identified as not economically disadvantaged by 30 points. In 2000, the average scale score for students in Illinois who were identified as economically disadvantaged was lower than the score of those identified as not economically disadvantaged by 25 points.
- Students in Illinois identified as economically disadvantaged had an average scale score (222) in 2024 that was lower than that of students in the nation who were identified as economically disadvantaged (226).
- In Illinois, students identified as economically disadvantaged had an average mathematics scale score in 2024 that was higher than that of identified as economically disadvantaged students in 2000 and 2003, but lower than that of identified as economically disadvantaged students in 2013 and 2019, and not significantly different from that of identified as economically disadvantaged students in 2005, 2007, 2009, 2011, 2015, 2017, and 2022.

Grade 4 NAEP Achievement-Level Results by Economically Disadvantaged Status

- In Illinois, 21 percent of students who were identified as economically disadvantaged and 56 percent of those who were identified as not economically disadvantaged for this program performed at or above *NAEP Proficient* in 2024. These percentages were significantly different from one another.
- For students in Illinois in 2024 who were identified as economically disadvantaged, the percentage at or above *NAEP Proficient* (21 percent) was smaller than the corresponding percentage for their counterparts around the nation (25 percent).
- In Illinois, the percentage of students identified as economically disadvantaged who performed at or above *NAEP Proficient* in 2024 was greater than the corresponding percentages in 2000, 2003, and 2005, but not significantly different from the corresponding percentages in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 6-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024

Economically Disadvantaged Status, year, and jurisdiction	Percentage of students	Average scale score	PERCENT				
			Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>	
Economically disadvantaged							
2000 ¹	Nation (public)	35*	210*	54*	46*	9*	#*
	Illinois	37*	209*	57*	43*	7*	#*
2000	Nation (public)	40*	208*	57*	43*	7*	#*
	Illinois	38*	208*	60*	40*	6*	#
2003	Nation (public)	44*	222*	38*	62*	15*	1*
	Illinois	41*	216*	48*	52*	11*	1*
2005	Nation (public)	46*	225	33*	67*	19*	1*
	Illinois	45*	218	44	56	15*	1
2007	Nation (public)	46*	227*	30*	70*	22*	1*
	Illinois	44*	223	36	64	17	1
2009	Nation (public)	48*	228*	29*	71*	22*	1*
	Illinois	46*	224	34	66	18	1
2011	Nation (public)	52*	229*	27*	73*	24	2*
	Illinois	49	225	33*	67*	20	1
2013	Nation (public)	54	230*	27*	73*	26	2*
	Illinois	51	226*	33*	67*	22	2
2015	Nation (public)	55	229*	28*	72*	24	2*
	Illinois	56	225	34	66	21	2
2017	Nation (public)	54	228*	31*	69*	25	3*
	Illinois	50	224	37	63	20	2
2019	Nation (public)	54	229*	29*	71*	26	3*
	Illinois	52	226*	33*	67*	24	3
2022	Nation (public)	52*	223*	38*	62*	20*	2*
	Illinois	44*	221	40	60	18	1
2024	Nation (public)	54	226	35	65	25	3
	Illinois	52	222	39	61	21	2

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 6-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024—Continued

Economically Disadvantaged Status, year, and jurisdiction	Percentage of students	Average scale score	PERCENT				
			Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>	
Not economically disadvantaged							
2000 ¹	Nation (public)	52*	236*	21*	79*	33*	4*
	Illinois	52	235*	20*	80*	30*	2*
2000	Nation (public)	49	235*	23*	77*	32*	4*
	Illinois	49	234*	21*	79*	29*	2*
2003	Nation (public)	52*	244*	12	88	45*	6*
	Illinois	55*	246*	11	89	48*	8*
2005	Nation (public)	52*	248*	10*	90*	50*	8*
	Illinois	55*	245*	12	88	45*	7*
2007	Nation (public)	53*	249*	9*	91*	53*	9*
	Illinois	56*	249	10	90	51	9*
2009	Nation (public)	51*	250*	9*	91*	54*	10*
	Illinois	54*	251	9	91	54	11
2011	Nation (public)	47*	252	8*	92*	57	12*
	Illinois	51	252	8	92	56	12
2013	Nation (public)	46	254*	7*	93*	60*	14*
	Illinois	49	252	10	90	57	15
2015	Nation (public)	44	253*	8*	92*	58	13*
	Illinois	44	252	9	91	56	15
2017	Nation (public)	45	253*	9*	91*	57	14
	Illinois	49	253	10	90	57	17
2019	Nation (public)	45	253*	9*	91*	58	15
	Illinois	48	249	12	88	54	14
2022	Nation (public)	47*	248*	13	87	51*	13*
	Illinois	55*	250	12	88	53	15
2024	Nation (public)	45	251	12	88	56	15
	Illinois	48	251	12	88	56	15

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 6-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024—Continued

Economically Disadvantaged Status, year, and jurisdiction	Percentage of students	Average scale score	PERCENT				
			Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>	
Information not available							
2000 ¹	Nation (public)	13*	235	23	77	35	3
	Illinois	12	231	29	71	31	4
2000	Nation (public)	11*	236	22	78	35	4
	Illinois	12	224	35	65	26	3
2003	Nation (public)	4*	235	23	77	34	4
	Illinois	4	220	41	59	15	2
2005	Nation (public)	2*	237	21	79	36	5
	Illinois	#	‡	‡	‡	‡	‡
2007	Nation (public)	1	243*	17*	83*	44	8
	Illinois	#	‡	‡	‡	‡	‡
2009	Nation (public)	1	240	22	78	42	7
	Illinois	#	‡	‡	‡	‡	‡
2011	Nation (public)	#	247*	12*	88*	49	10
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1	255*	9*	91*	60*	18
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1	246*	15*	85*	49*	11
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1	238	22	78	38	8
	Illinois	1	‡	‡	‡	‡	‡
2019	Nation (public)	1	239	20*	80*	40	9
	Illinois	1	‡	‡	‡	‡	‡
2022	Nation (public)	1*	236	25	75	37	8
	Illinois	1	237	25	75	35	10
2024	Nation (public)	1	227	32	68	31	5
	Illinois	#	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214–248; *NAEP Proficient*, 249–281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

Grade 8 Average Scale Score Results by Economically Disadvantaged Status

- In 2024, students in Illinois identified as economically disadvantaged had an average mathematics scale score of 259. This was lower than that of students in Illinois identified as not economically disadvantaged for this program (295).
- In 2024, students in Illinois who were identified as economically disadvantaged had an average scale score that was lower than that of students who were identified as not economically disadvantaged by 36 points. In 2000, the average scale score for students in Illinois who were identified as economically disadvantaged was lower than the score of those identified as not economically disadvantaged by 30 points.
- Students in Illinois identified as economically disadvantaged had an average scale score (259) in 2024 that was not significantly different from that of students in the nation who were identified as economically disadvantaged (257).
- In Illinois, students identified as economically disadvantaged had an average mathematics scale score in 2024 that was lower than that of identified as economically disadvantaged students in 2009, 2011, 2013, 2015, 2017, and 2019, but not significantly different from that of identified as economically disadvantaged students in 2000, 2003, 2005, 2007, and 2022.

Grade 8 NAEP Achievement-Level Results by Economically Disadvantaged Status

- In Illinois, 15 percent of students who were identified as economically disadvantaged and 49 percent of those who were identified as not economically disadvantaged for this program performed at or above *NAEP Proficient* in 2024. These percentages were significantly different from one another.
- For students in Illinois in 2024 who were identified as economically disadvantaged, the percentage at or above *NAEP Proficient* (15 percent) was not significantly different from the corresponding percentage for their counterparts around the nation (14 percent).
- In Illinois, the percentage of students identified as economically disadvantaged who performed at or above *NAEP Proficient* in 2024 was greater than the corresponding percentages in 2003 and 2005, but smaller than the percentage in 2019, and not significantly different from the corresponding percentages in 2000, 2007, 2009, 2011, 2013, 2015, 2017, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 6-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024

Economically Disadvantaged Status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Economically disadvantaged							
2000 ¹	Nation (public)	28*	255	56	44	10*	1*
	Illinois	30*	259	53	47	12	1*
2000	Nation (public)	31*	253*	59	41	10*	1*
	Illinois	31*	255	55	45	12	1
2003	Nation (public)	36*	258	53*	47*	11*	1*
	Illinois	37*	256	57	43	10*	1*
2005	Nation (public)	39*	261*	49*	51*	13	1*
	Illinois	38*	258	54	46	10*	1*
2007	Nation (public)	41*	265*	45*	55*	15*	2*
	Illinois	39*	262	49*	51*	13	2*
2009	Nation (public)	43*	266*	43*	57*	17*	2*
	Illinois	39*	264*	47*	53*	14	2
2011	Nation (public)	48*	269*	41*	59*	19*	2
	Illinois	48	269*	39*	61*	17	2
2013	Nation (public)	50*	270*	39*	61*	20*	3
	Illinois	46	268*	42*	58*	18	2
2015	Nation (public)	52	268*	42*	58*	18*	2
	Illinois	51	269*	40*	60*	18	2
2017	Nation (public)	49*	267*	45*	55*	18*	3*
	Illinois	49	267*	45*	55*	18	3
2019	Nation (public)	50*	266*	46*	54*	18*	3*
	Illinois	48	269*	44*	56*	20*	4
2022	Nation (public)	50*	260*	54*	46*	13	2*
	Illinois	46	259	56	44	12	2
2024	Nation (public)	51	257	55	45	14	3
	Illinois	48	259	56	44	15	3

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 6-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024—Continued

Economically Disadvantaged Status, year, and jurisdiction	Percentage of students	Average scale score	PERCENT				
			Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>	
Not economically disadvantaged							
2000 ¹	Nation (public)	55*	285*	24	76	35*	7*
	Illinois	65*	285*	23	77	34*	5*
2000	Nation (public)	54*	283*	26	74	34*	7*
	Illinois	63*	284*	23	77	34*	5*
2003	Nation (public)	58*	287	22*	78*	37*	7*
	Illinois	60*	290	19	81	41*	9*
2005	Nation (public)	59*	288	21*	79*	39*	8*
	Illinois	62*	290*	18	82	40*	8*
2007	Nation (public)	58*	291*	19*	81*	42	10*
	Illinois	61*	292	17	83	42*	10*
2009	Nation (public)	56*	293*	17*	83*	45*	12*
	Illinois	61*	294	15*	85*	45	11*
2011	Nation (public)	52*	295*	16*	84*	47*	13
	Illinois	52	296	16*	84*	47	14
2013	Nation (public)	50*	297*	14*	86*	49*	14
	Illinois	54	299*	13*	87*	52	15
2015	Nation (public)	47*	296*	16*	84*	48*	13
	Illinois	49	296	15*	85*	47	12*
2017	Nation (public)	50*	297*	17*	83*	48*	16*
	Illinois	51	296	19	81	46	16
2019	Nation (public)	49	296*	18*	82*	48*	16*
	Illinois	52	295	18	82	46	15
2022	Nation (public)	49	287	25	75	38*	11*
	Illinois	53	289	23	77	40*	12*
2024	Nation (public)	48	288	26	74	41	13
	Illinois	51	295	21	79	49	18

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 6-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by Economically Disadvantaged Status, year and jurisdiction: Various years, 2000–2024—Continued

Economically Disadvantaged Status, year, and jurisdiction	Percentage of students	Average scale score	PERCENT				
			Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>	
Information not available							
2000 ¹	Nation (public)	16*	273	37	63	26	4
	Illinois	5	278	30	70	25	3
2000	Nation (public)	15*	271	38	62	24	4
	Illinois	5	278	30	70	23	4
2003	Nation (public)	6*	278	32*	68*	29	6
	Illinois	3	269	43	57	24	4
2005	Nation (public)	3*	277	34	66	28	6
	Illinois	1	‡	‡	‡	‡	‡
2007	Nation (public)	1*	274	36	64	28	6
	Illinois	#	‡	‡	‡	‡	‡
2009	Nation (public)	1	284*	28*	72*	35	10
	Illinois	#	‡	‡	‡	‡	‡
2011	Nation (public)	#	275	37	63	26	6
	Illinois	#	‡	‡	‡	‡	‡
2013	Nation (public)	1	285	29	71	39	13
	Illinois	#	‡	‡	‡	‡	‡
2015	Nation (public)	1*	293*	21*	79*	45*	17*
	Illinois	#	‡	‡	‡	‡	‡
2017	Nation (public)	1*	293*	23*	77*	46*	17*
	Illinois	#	‡	‡	‡	‡	‡
2019	Nation (public)	1*	286*	29*	71*	38	15*
	Illinois	1	278	36	64	31	8
2022	Nation (public)	2*	274	39	61	26	7
	Illinois	1	267	46	54	21	6
2024	Nation (public)	1	272	43	57	28	7
	Illinois	#	‡	‡	‡	‡	‡

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

Type of Location

NAEP results are reported for four mutually exclusive categories of school location: city, suburb, town, and rural. The categories are based on standard definitions established by the Federal Office of Management and Budget using population and geographic information from the U.S. Census Bureau. Schools are assigned to these categories in the NCES Common Core of Data based on their physical address.

In 2007, the classification system was revised; therefore, trend comparisons to previous years are not available. The new locale codes are based on an address's proximity to an urbanized area (a densely settled core with densely settled surrounding areas). The original system was based on metropolitan statistical areas. To distinguish the two systems, the new system is referred to as "urban-centric locale codes." The urban-centric locale code system classifies territory into four major types: city, suburban, town, and rural. Each type has three subcategories. For city and suburb, these are gradations of size—large, midsize, and small. Towns and rural areas are further distinguished by their distance from an urbanized area. They can be characterized as fringe, distant, or remote.

Tables 7-A and 7-B show percentage of students, average scale scores, and percentages by NAEP achievement level for public school students at grades 4 and 8 in Illinois and the nation, by type of location since 2007.

Grade 4 Average Scale Score Results by Type of Location

- In 2024, the average scale score of students in Illinois attending public schools in city locations was not significantly different from the scores of students in suburban and rural schools.
- In 2024, students attending public schools in city, suburban, and rural locations in Illinois had average scale scores that were not significantly different from the average scale scores of students in city, suburban, and rural locations in the nation.
- In 2024, students attending public schools in city, suburban, and rural locations in Illinois had average scale scores that were not significantly different from the average scale scores of students in city, suburban, and rural locations in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022 in Illinois.

Grade 4 NAEP Achievement-Level Results by Type of Location

- In 2024, the percentage of students in Illinois's public schools in city locations who performed at or above *NAEP Proficient* was not significantly different from the corresponding percentages of students in suburban and rural schools.
- The percentages of students in Illinois's public schools in city, suburban, and rural locations who performed at or above *NAEP Proficient* in 2024 were not significantly different from those of students in city, suburban, and rural locations in the nation.
- The percentages of students in Illinois's public schools in city, suburban, and rural locations who performed at or above *NAEP Proficient* in 2024 were not significantly different from those of students in city, suburban, and rural locations in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022 in Illinois.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 7-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
City							
2007	Nation (public)	29	233	26*	74*	32	5*
	Illinois	29	225	36	64	22	3
2009	Nation (public)	30	234*	25*	75*	32	5*
	Illinois	31	230	30	70	28	5
2011	Nation (public)	29	235*	24*	76*	33	5*
	Illinois	30	233	28	72	33	7
2013	Nation (public)	30	236*	24*	76*	35	7
	Illinois	32	234	27*	73*	33	7
2015	Nation (public)	31*	236*	24*	76*	35	7
	Illinois	31	232	29	71	30	6
2017	Nation (public)	30	234	27*	73*	33	7
	Illinois	31	235	28	72	34	9
2019	Nation (public)	30	235*	26*	74*	35	7
	Illinois	31	232	29	71	33	8
2022	Nation (public)	29	229*	34*	66*	29*	6*
	Illinois	29	228	34	66	27	6
2024	Nation (public)	29	232	31	69	34	8
	Illinois	29	228	36	64	32	8
Suburban							
2007	Nation (public)	37*	243*	15*	85*	44	7*
	Illinois	46	242	17	83	42	7
2009	Nation (public)	36*	243*	16*	84*	44	7*
	Illinois	45	243	17	83	43	9
2011	Nation (public)	36*	244*	15*	85*	45	8*
	Illinois	44*	241	18	82	41	8
2013	Nation (public)	35*	244*	15*	85*	46*	9
	Illinois	43*	242	20	80	44	12
2015	Nation (public)	41	243*	16*	84*	44	9*
	Illinois	51	242	20	80	43	11
2017	Nation (public)	40	243*	18*	82*	45	10
	Illinois	49	240	23	77	41	11
2019	Nation (public)	40	244*	16*	84*	46*	11
	Illinois	51	242	19	81	43	10
2022	Nation (public)	40	239*	23	77	40*	9*
	Illinois	48	241	21	79	42	11
2024	Nation (public)	40	240	22	78	43	11
	Illinois	50	239	23	77	40	10

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 7-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024—Continued

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Town							
2007	Nation (public)	12*	238*	18*	82*	36	4*
	Illinois	11	239	15	85	34	4
2009	Nation (public)	12*	237*	19*	81*	35	4*
	Illinois	10	240	16	84	39	4
2011	Nation (public)	13*	237*	19*	81*	35	4*
	Illinois	9	240	15	85	37	4
2013	Nation (public)	11	240*	17*	83*	39*	6
	Illinois	10	239	17	83	38	4
2015	Nation (public)	11	237	20*	80*	35	5
	Illinois	7	232	26	74	27	4
2017	Nation (public)	11	237	21*	79*	36	6
	Illinois	11	238	19	81	39	3
2019	Nation (public)	10	237*	21*	79*	37	6
	Illinois	9	234	23	77	35	4
2022	Nation (public)	11	232*	27	73	31*	4*
	Illinois	9	‡	‡	‡	‡	‡
2024	Nation (public)	10	235	25	75	36	6
	Illinois	10	‡	‡	‡	‡	‡

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 7-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024—Continued**

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Rural							
2007	Nation (public)	22*	240	16*	84*	39	5*
	Illinois	13	248	9	91	50	8
2009	Nation (public)	22*	240	16*	84*	39	5*
	Illinois	14	242	13	87	41	6
2011	Nation (public)	23*	243*	15*	85*	42	6*
	Illinois	18*	241	15	85	40	5
2013	Nation (public)	25*	243*	14*	86*	44	7
	Illinois	15	240	18	82	39	5
2015	Nation (public)	18*	241	16*	84*	40	6*
	Illinois	11	237	17	83	34	4
2017	Nation (public)	19*	240	18	82	41	7
	Illinois	10	240	18	82	40	6
2019	Nation (public)	19	240	18	82	40	7*
	Illinois	9	236	20	80	35	3
2022	Nation (public)	20	238*	21	79	37*	7*
	Illinois	13	242	17	83	43	10
2024	Nation (public)	20	240	20	80	42	8
	Illinois	12	241	18	82	42	6

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214–248; *NAEP Proficient*, 249–281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2007–2024 Mathematics Assessments.

Grade 8 Average Scale Score Results by Type of Location

- In 2024, the average scale score of students in Illinois attending public schools in city locations was lower than the scores of students in suburban and rural schools, but was not significantly different from the score of students in town schools.
- In 2024, students attending public schools in suburban locations in Illinois had an average scale score that was higher than the average scale score of students in suburban locations in the nation.
- In 2024, students attending public schools in city, town, and rural locations in Illinois had average scale scores that were not significantly different from the average scale scores of students in city, town, and rural locations in the nation.
- In 2024, students attending public schools in city locations in Illinois had an average scale score that was lower than the average scale score of students in city locations in 2011, 2017, and 2019 in Illinois, but not significantly different from the average scale score of students in city locations in 2007, 2009, 2013, 2015, and 2022 in Illinois.
- In 2024, students attending public schools in suburban locations in Illinois had an average scale score that was lower than the average scale score of students in suburban locations in 2013 in Illinois, but not significantly different from the average scale score of students in suburban locations in 2007, 2009, 2011, 2015, 2017, 2019, and 2022 in Illinois.
- In 2024, students attending public schools in town and rural locations in Illinois had average scale scores that were not significantly different from the average scale scores of students in town and rural locations in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022 in Illinois.

Grade 8 NAEP Achievement-Level Results by Type of Location

- In 2024, the percentage of students in Illinois's public schools in city locations who performed at or above *NAEP Proficient* was smaller than the percentage of students in suburban schools, but was not significantly different from the corresponding percentages of students in town and rural schools.
- The percentages of students in Illinois's public schools in suburban and rural locations who performed at or above *NAEP Proficient* in 2024 were greater than those of students in suburban and rural locations in the nation.
- The percentages of students in Illinois's public schools in city and town locations who performed at or above *NAEP Proficient* in 2024 were not significantly different from those of students in city and town locations in the nation.
- The percentages of students in Illinois's public schools in city, suburban, town, and rural locations who performed at or above *NAEP Proficient* in 2024 were not significantly different from those of students in city, suburban, town, and rural locations in 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022 in Illinois.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 7-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
City							
2007	Nation (public)	28	273*	38*	62*	25	5*
	Illinois	27	269	41	59	20	4
2009	Nation (public)	27*	276*	36*	64*	28*	6
	Illinois	28	272	39*	61*	24	5
2011	Nation (public)	29	277*	34*	66*	29*	7
	Illinois	30	278*	33*	67*	28	7
2013	Nation (public)	28	278*	34*	66*	29*	7
	Illinois	30*	274	37*	63*	26	6
2015	Nation (public)	29	276*	35*	65*	28*	7
	Illinois	28	277	35*	65*	27	8
2017	Nation (public)	29	277*	37*	63*	29*	9*
	Illinois	27	277*	38*	62*	28	10
2019	Nation (public)	29	276*	38*	62*	28*	9*
	Illinois	28	278*	36*	64*	30	9
2022	Nation (public)	29	268	45	55	22	6
	Illinois	26	264	49	51	17	4
2024	Nation (public)	28	267	47	53	24	7
	Illinois	27	267	49	51	24	9
Suburban							
2007	Nation (public)	36*	285*	26*	74*	36*	9
	Illinois	42	285	26*	74*	37	9
2009	Nation (public)	36*	286*	25*	75*	37*	10
	Illinois	48	287	24*	76*	39	10
2011	Nation (public)	36*	286*	25*	75*	37*	9
	Illinois	47	285	26*	74*	36	9
2013	Nation (public)	35*	288*	24*	76*	39*	10
	Illinois	46	290*	22*	78*	42	12
2015	Nation (public)	41	285*	26*	74*	37*	10
	Illinois	53	285	24*	76*	36	8
2017	Nation (public)	41	287*	27*	73*	39*	12*
	Illinois	50	283	31	69	34	11
2019	Nation (public)	40	286*	28*	72*	38*	12*
	Illinois	49	286	29	71	38	12
2022	Nation (public)	39	278	36	64	30	9
	Illinois	53	282	33	67	34	11
2024	Nation (public)	40	276	37	63	31	10
	Illinois	49	281	35	65	36	13

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 7-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024—Continued**

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Town							
2007	Nation (public)	13*	280*	29*	71*	29*	5
	Illinois	15	283	25	75	29	7
2009	Nation (public)	14*	279*	30*	70*	29*	5
	Illinois	10	282	22*	78*	29	4
2011	Nation (public)	13*	281*	28*	72*	31*	6*
	Illinois	11	283	24*	76*	31	7
2013	Nation (public)	13*	281*	28*	72*	32*	6*
	Illinois	10	284	24	76	34	5
2015	Nation (public)	12	279*	30*	70*	28*	5
	Illinois	10	275	32	68	21	3
2017	Nation (public)	11	278*	33*	67*	28*	6*
	Illinois	11	279	31	69	30	6
2019	Nation (public)	12	276*	35*	65*	28*	6*
	Illinois	10	278	32	68	29	8
2022	Nation (public)	12	268	43	57	20	4
	Illinois	9	265	47	53	16	2
2024	Nation (public)	11	268	44	56	22	4
	Illinois	9	276	37	63	29	7

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 7-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by type of location, year and jurisdiction: Various years, 2007–2024—Continued

Type of location, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Rural							
2007	Nation (public)	22*	282*	26*	74*	32*	6
	Illinois	15	285	24	76	34	6
2009	Nation (public)	23*	284*	25*	75*	33*	7
	Illinois	15	286	21	79	35	7
2011	Nation (public)	23*	286*	23*	77*	35*	7
	Illinois	12	289	18*	82*	37	7
2013	Nation (public)	24*	286*	24*	76*	36*	8*
	Illinois	14	291	19	81	42	11
2015	Nation (public)	19*	282*	27*	73*	31*	6
	Illinois	10	285	23	77	38	5
2017	Nation (public)	19	282*	29*	71*	32*	8*
	Illinois	12	289	21	79	38	11
2019	Nation (public)	19	282*	29*	71*	33*	8*
	Illinois	13	283	26	74	30	6
2022	Nation (public)	20	274	37	63	25	5*
	Illinois	12	277	32	68	25	4
2024	Nation (public)	20	274	38	62	27	6
	Illinois	15	284	29	71	39	12

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2007–2024 Mathematics Assessments.

Parents' Highest Level of Education

Parents' highest level of education is defined by the highest level reported by eighth-graders for either parent. Fourth-graders were not asked to indicate their parents' highest level of education because their responses in previous studies were not reliable, and a large percentage of them chose the "I don't know" option. Parental education attainment is one component used to measure students' socioeconomic status (SES).

The results by highest level of parental education are shown in Table 8.

Grade 8 Average Scale Score Results by Parents' Highest Level of Education

- In 2024, students in Illinois who reported that a parent had graduated from college had an average scale score that was higher than the average scores of students with a parent in any of the following education categories: did not finish high school, graduated from high school, and some education after high school.
- In 2024, the average scale score for students in Illinois who reported that a parent had graduated from college was higher than the score of students in the nation.
- In 2024, the average scale scores for students in Illinois who reported that a parent had not finished high school, had graduated from high school, or had some education after high school were not significantly different from the corresponding scores of students in the nation.
- In 2024, the average scale score for students in Illinois who reported that a parent had not finished high school was lower than the score of students in 2007, 2009, 2011, 2013, 2015, 2017, and 2019, but was not significantly different from the score of students in 1990, 2000, 2003, 2005, and 2022.
- In 2024, the average scale score for students in Illinois who reported that a parent had graduated from high school was lower than the score of students in 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, and 2019, but was not significantly different from the score of students in 1990, 2000, and 2022.
- In 2024, the average scale score for students in Illinois who reported that a parent had some education after high school was lower than the score of students in 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, and 2019, but was not significantly different from the score of students in 1990 and 2022.
- In 2024, the average scale score for students in Illinois who reported that a parent had graduated from college was higher than the score of students in 1990 and 2000, but was lower than the score of students in 2013, and was not significantly different from the score of students in 2003, 2005, 2007, 2009, 2011, 2015, 2017, 2019, and 2022.

Grade 8 NAEP Achievement-Level Results by Parents' Highest Level of Education

- In 2024, the percentage of students performing at or above *NAEP Proficient* in Illinois who reported that a parent had graduated from college was greater than the percentage for students whose parents' highest level of education was in any of the following education categories: did not finish high school, graduated from high school, and some education after high school.
- In 2024, the percentage of students in Illinois reporting that a parent had graduated from college and who performed at or above *NAEP Proficient* was greater than the percentage of students in the nation.
- In 2024, the percentages of students in Illinois reporting that a parent had not finished high school, had graduated from high school, or had some education after high school and who performed at or above *NAEP Proficient* were not significantly different from the corresponding percentages of students in the nation.
- In 2024 in Illinois, the respective percentages of students reporting that a parent had not finished high school or had graduated from college and who performed at or above *NAEP Proficient* were greater than the corresponding percentages of students in 1990, but were not significantly different from the corresponding percentages of students in 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024 in Illinois, the percentage of students reporting that a parent had graduated from high school and who performed at or above *NAEP Proficient* was not significantly different from the percentage of students in 1990, 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, and 2022.
- In 2024 in Illinois, the percentage of students reporting that a parent had some education after high school and who performed at or above *NAEP Proficient* was greater than the percentage of students in 1990, but was smaller than the percentage of students in 2011, and was not significantly different from the percentage of students in 2000, 2003, 2005, 2007, 2009, 2013, 2015, 2017, 2019, and 2022.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 8. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by highest parental education level, year and jurisdiction: Various years, 1990–2024

Highest parental education level, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Did not finish high school							
1990 ¹	Nation (public)	10*	241*	76*	24*	3*	#
	Illinois	8*	242	71	29	4*	#
2000 ¹	Nation (public)	7*	255	55*	45*	8	1
	Illinois	8*	256	55	45	6	#
2000	Nation (public)	8*	253	57	43	7	#
	Illinois	8*	254	51	49	8	#
2003	Nation (public)	7*	256*	56*	44*	9	1
	Illinois	6	256	60	40	8	#
2005	Nation (public)	8*	259*	52*	48*	11	1
	Illinois	7*	255	59	41	6	#
2007	Nation (public)	8*	263*	48*	52*	12*	1
	Illinois	8*	262*	50*	50*	10	1
2009	Nation (public)	8*	265*	45*	55*	14*	1
	Illinois	6*	266*	43*	57*	15	#
2011	Nation (public)	8*	265*	44*	56*	15*	2
	Illinois	7*	271*	36*	64*	16	2
2013	Nation (public)	8*	267*	42*	58*	16*	2
	Illinois	8*	267*	41*	59*	15	1
2015	Nation (public)	8*	265*	44*	56*	14*	1
	Illinois	8*	270*	38*	62*	18	2
2017	Nation (public)	7*	265*	48*	52*	16*	2
	Illinois	6	264*	51*	49*	18	3
2019	Nation (public)	7*	264*	48*	52*	15*	2*
	Illinois	7	268*	45*	55*	19	4
2022	Nation (public)	7*	256*	57	43	10	1
	Illinois	6	256	60	40	9	2
2024	Nation (public)	6	252	61	39	10	1
	Illinois	5	251	64	36	12	2

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 8. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by highest parental education level, year and jurisdiction: Various years, 1990–2024—Continued

Highest parental education level, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Graduated from high school							
1990 ¹	Nation (public)	25*	255	59	41	8*	#
	Illinois	25*	252	59	41	7	#
2000 ¹	Nation (public)	21*	263*	47*	53*	16*	1
	Illinois	19*	268*	42*	58*	16	1
2000	Nation (public)	21*	260*	49*	51*	15	1
	Illinois	20*	263	44*	56*	15	2
2003	Nation (public)	18*	267*	42*	58*	16*	2
	Illinois	17*	269*	40*	60*	19	2
2005	Nation (public)	18*	267*	42*	58*	17*	2
	Illinois	17*	265*	44*	56*	15	1
2007	Nation (public)	18*	270*	40*	60*	19*	2
	Illinois	15*	267*	44*	56*	16	2
2009	Nation (public)	17*	270*	38*	62*	19*	2
	Illinois	16*	269*	40*	60*	17	1
2011	Nation (public)	17*	271*	38*	62*	20*	2
	Illinois	15*	268*	41*	59*	15	2
2013	Nation (public)	17*	270*	39*	61*	19*	2
	Illinois	15	272*	38*	62*	22	3
2015	Nation (public)	16*	268*	42*	58*	17*	2
	Illinois	15	268*	41*	59*	17	2
2017	Nation (public)	15*	266*	45*	55*	17*	3*
	Illinois	14	266*	46*	54*	16	2
2019	Nation (public)	15	265*	46*	54*	17*	3*
	Illinois	13	269*	43*	57*	22	5
2022	Nation (public)	15*	258*	55*	45*	12	1
	Illinois	13	257	58	42	10	1
2024	Nation (public)	14	254	58	42	12	2
	Illinois	13	255	58	42	14	2

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT
Table 8. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by highest parental education level, year and jurisdiction: Various years, 1990–2024—Continued

Highest parental education level, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Some education after high school							
1990 ¹	Nation (public)	17*	267	43	57	15*	3
	Illinois	19*	263	47	53	13*	1
2000 ¹	Nation (public)	18*	279*	28*	72*	27*	3
	Illinois	19*	280*	26*	74*	28	2
2000	Nation (public)	18*	277*	30*	70*	26	3
	Illinois	18*	282*	24*	76*	30	2
2003	Nation (public)	18*	280*	27*	73*	28*	4
	Illinois	17*	278*	30*	70*	27	5
2005	Nation (public)	18*	280*	27*	73*	28*	4
	Illinois	18*	279*	28*	72*	27	4
2007	Nation (public)	17*	283*	24*	76*	32*	5
	Illinois	17*	282*	26*	74*	30	4
2009	Nation (public)	17*	283*	24*	76*	32*	5
	Illinois	17*	280*	26*	74*	29	3
2011	Nation (public)	16*	285*	22*	78*	33*	5
	Illinois	17*	285*	21*	79*	33*	5
2013	Nation (public)	15*	285*	22*	78*	33*	6*
	Illinois	14	285*	22*	78*	31	6
2015	Nation (public)	15*	282*	25*	75*	30*	5
	Illinois	15	282*	24*	76*	28	4
2017	Nation (public)	14	281*	29*	71*	30*	6*
	Illinois	13	280*	29*	71*	28	6
2019	Nation (public)	14	279*	30*	70*	29*	6*
	Illinois	14	276*	33	67	26	4
2022	Nation (public)	13	271	39*	61*	20	3*
	Illinois	13	269	40	60	16	2
2024	Nation (public)	13	270	42	58	22	4
	Illinois	12	269	43	57	22	4

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 8. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by highest parental education level, year and jurisdiction: Various years, 1990–2024—Continued

Highest parental education level, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Graduated from college							
1990 ¹	Nation (public)	39*	274*	34*	66*	25*	4*
	Illinois	39*	273*	36*	64*	24*	4*
2000 ¹	Nation (public)	43*	286	24*	76*	39	9*
	Illinois	42*	287	22	78	39	7*
2000	Nation (public)	41*	285	25*	75*	38	9*
	Illinois	42*	284*	25	75	37	7*
2003	Nation (public)	45*	287	23*	77*	39	8*
	Illinois	48*	288	23	77	41	10*
2005	Nation (public)	45*	289*	22*	78*	41*	10*
	Illinois	47*	289	20*	80*	41	9*
2007	Nation (public)	46*	291*	20*	80*	43*	11
	Illinois	46*	293	18*	82*	45	12
2009	Nation (public)	46*	294*	18*	82*	46*	13
	Illinois	50*	294	18*	82*	46	13
2011	Nation (public)	47*	294*	18*	82*	46*	13
	Illinois	48*	294	19*	81*	46	14
2013	Nation (public)	49*	295*	17*	83*	47*	14
	Illinois	51*	297*	17*	83*	50	15
2015	Nation (public)	49*	293*	19*	81*	45*	13
	Illinois	51	293	18*	82*	44	12
2017	Nation (public)	53	294*	21*	79*	45*	16*
	Illinois	54	293	21	79	44	15
2019	Nation (public)	52	293*	22*	78*	45*	15*
	Illinois	54	294	21	79	45	16
2022	Nation (public)	51*	285	28	72	37	11*
	Illinois	53	289	25	75	39	13
2024	Nation (public)	52	286	28	72	39	13
	Illinois	56	292	25	75	46	17

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 8. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by highest parental education level, year and jurisdiction: Various years, 1990–2024—Continued

Highest parental education level, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Unknown							
1990 ¹	Nation (public)	9*	240*	71*	29*	5*	#
	Illinois	9*	241*	70*	30*	4*	#
2000 ¹	Nation (public)	11*	255	55	45	11	1*
	Illinois	12	264	47	53	15	1
2000	Nation (public)	12*	253	59	41	9*	1*
	Illinois	12	262	48	52	14	2
2003	Nation (public)	11*	258*	53*	47*	12	1*
	Illinois	12	257	57	43	11	1
2005	Nation (public)	11*	260*	51*	49*	13	1*
	Illinois	11*	261	49	51	13	2
2007	Nation (public)	12*	263*	48*	52*	15*	2
	Illinois	13	266*	45*	55*	15	3
2009	Nation (public)	12*	264*	47*	53*	16*	2
	Illinois	11*	266*	43*	57*	14	3
2011	Nation (public)	12*	265*	46*	54*	16*	2
	Illinois	13	268*	42*	58*	16	2
2013	Nation (public)	12*	266*	45*	55*	17*	2
	Illinois	13	267*	43*	57*	18	3
2015	Nation (public)	12*	263*	49*	51*	15*	2
	Illinois	12	263	50	50	17	2
2017	Nation (public)	11*	263*	50*	50*	16*	3
	Illinois	13	263	50	50	16	4
2019	Nation (public)	13*	263*	50*	50*	16*	3
	Illinois	11	265*	46	54	17	4
2022	Nation (public)	14	257*	57	43	12	2
	Illinois	15	258	56	44	14	2
2024	Nation (public)	15	254	59	41	12	3
	Illinois	14	257	56	44	15	4

Rounds to zero.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

¹ Accommodations were not permitted for this assessment.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

A More Inclusive NAEP: Students With Disabilities and/or English Learners

It is important for NAEP to assess as many students selected to participate as possible. Assessing representative samples of students, including students with disabilities (SD) and English learners (EL), helps to ensure that NAEP results accurately reflect the educational performance of all students in the target population, and can continue to serve as a meaningful measure of U.S. students' academic achievement over time.

In March 2010, the National Center for Education Statistics (NCES), working with the National Assessment Governing Board, adopted a new policy to maximize the participation of students with disabilities (SD) and English learners (EL).

Today, NAEP continues to explore ways to ensure consistent, inclusive assessment and reporting across all jurisdictions and student populations.

Tables 9-A and 9-B display data for grades 4 and 8 students in Illinois who were identified as SD and/or EL, by whether they were excluded, assessed with accommodations, or assessed under standard conditions, as a percent of all grades 4 and 8 students in the state.

Tables 10-A and 10-B show the percentages of students assessed in Illinois by disability status and their performance on the NAEP assessment in terms of average scale scores and percentages performing below *NAEP Basic*, at or above *NAEP Basic*, at or above *NAEP Proficient*, and at *NAEP Advanced* for grades 4 and 8.

Tables 11-A and 11-B present the percentages of students assessed in Illinois by EL status, their average scale scores, and their performance in terms of the percentages below *NAEP Basic*, at or above *NAEP Basic*, at or above *NAEP Proficient*, and at *NAEP Advanced* for grades 4 and 8.

Tables 12-A and 12-B present the total number of grades 4 and 8 students assessed in each of the participating states and the percentage of students sampled who were excluded.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 9-A. Percentage of fourth-grade public school students with disabilities (SD) and/or English learners (EL) identified, excluded and assessed in NAEP mathematics as a percentage of all students, by assessment year and testing status: Various years, 2000–2024**

Year and testing status		SD and/or EL		SD		EL	
		Illinois	Nation (public)	Illinois	Nation (public)	Illinois	Nation (public)
2000 ¹	Identified	17	16	11	12	7	6
	Excluded	10	7	7	6	4	2
	Assessed without accommodations	6	9	4	6	2	3
2000	Identified	17	19	11	13	7	7
	Excluded	3	4	2	3	2	1
	Assessed without accommodations	5	10	3	5	2	5
	Assessed with accommodations	9	5	6	4	3	1
2003	Identified	23	22	15	14	9	11
	Excluded	4	4	3	3	2	1
	Assessed without accommodations	7	10	4	4	4	7
	Assessed with accommodations	11	8	9	7	3	2
2005	Identified	22	23	14	14	9	10
	Excluded	3	3	2	3	1	1
	Assessed without accommodations	9	10	4	4	6	7
	Assessed with accommodations	10	10	8	8	3	3
2007	Identified	23	23	15	14	9	11
	Excluded	5	3	3	3	1	1
	Assessed without accommodations	8	10	4	3	4	7
	Assessed with accommodations	10	10	8	8	3	3
2009	Identified	22	23	15	13	8	10
	Excluded	3	2	2	2	1	1
	Assessed without accommodations	6	9	4	3	2	6
	Assessed with accommodations	13	11	9	8	5	4
2011	Identified	21	23	14	13	8	11
	Excluded	2	2	2	2	1	#
	Assessed without accommodations	6	9	4	3	2	6
	Assessed with accommodations	13	12	8	9	6	4
2013	Identified	20	23	14	14	9	11
	Excluded	1	2	1	1	#	#
	Assessed without accommodations	4	7	2	2	1	5
	Assessed with accommodations	15	14	11	10	7	5
2015	Identified	22	24	13	14	10	12
	Excluded	1	2	1	1	1	1
	Assessed without accommodations	6	8	3	3	3	6
	Assessed with accommodations	14	14	9	11	6	5
2017	Identified	24	25	15	15	12	12
	Excluded	2	2	1	2	1	1
	Assessed without accommodations	7	10	2	4	5	7
	Assessed with accommodations	16	13	12	9	6	5

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 9-A. Percentage of fourth-grade public school students with disabilities (SD) and/or English learners (EL) identified, excluded and assessed in NAEP mathematics as a percentage of all students, by assessment year and testing status: Various years, 2000–2024—Continued**

Year and testing status		SD and/or EL		SD		EL	
		Illinois	Nation (public)	Illinois	Nation (public)	Illinois	Nation (public)
2019	Identified	28	27	15	16	16	13
	Excluded	1	2	1	2	#	1
	Assessed without accommodations	12	10	3	3	9	7
	Assessed with accommodations	16	15	11	11	7	6
2022	Identified	32	29	15	16	21	15
	Excluded	1	2	1	1	1	1
	Assessed without accommodations	12	12	3	4	9	8
	Assessed with accommodations	19	15	11	11	11	5
2024	Identified	32	30	16	17	19	15
	Excluded	3	2	1	2	2	1
	Assessed without accommodations	10	13	3	5	8	9
	Assessed with accommodations	20	15	12	11	10	5

Rounds to zero.

¹ Accommodations were not permitted for this assessment.

NOTE: Students identified as both SD and EL were counted only once under the combined SD and/or EL category, but were counted separately under the SD and EL categories. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 9-B. Percentage of eighth-grade public school students with disabilities (SD) and/or English learners (EL) identified, excluded and assessed in NAEP mathematics as a percentage of all students, by assessment year and testing status: Various years, 1990–2024**

Year and testing status		SD and/or EL		SD		EL	
		Illinois	Nation (public)	Illinois	Nation (public)	Illinois	Nation (public)
1990 ¹	Identified	9	—	8	—	1	—
	Excluded	5	—	4	—	1	—
	Assessed without accommodations	4	—	4	—	#	—
2000 ¹	Identified	15	15	11	12	5	4
	Excluded	8	7	6	6	2	2
	Assessed without accommodations	7	8	5	6	3	3
2000	Identified	15	14	11	11	5	4
	Excluded	5	4	3	3	2	1
	Assessed without accommodations	7	7	5	5	3	3
	Assessed with accommodations	3	3	3	2	#	1
2003	Identified	18	19	15	14	4	6
	Excluded	4	4	4	3	1	1
	Assessed without accommodations	4	8	3	5	1	4
	Assessed with accommodations	9	7	8	6	2	1
2005	Identified	18	19	15	13	3	6
	Excluded	3	4	3	3	1	1
	Assessed without accommodations	4	7	2	3	1	4
	Assessed with accommodations	11	8	10	7	1	1
2007	Identified	18	18	14	13	4	7
	Excluded	6	4	5	4	1	1
	Assessed without accommodations	3	6	2	2	2	4
	Assessed with accommodations	9	8	8	6	1	2
2009	Identified	16	18	14	13	3	6
	Excluded	3	3	3	3	1	#
	Assessed without accommodations	3	5	2	2	1	3
	Assessed with accommodations	11	10	9	8	2	2
2011	Identified	17	18	14	13	4	6
	Excluded	2	3	2	2	#	#
	Assessed without accommodations	3	5	1	2	2	3
	Assessed with accommodations	12	10	10	9	2	2
2013	Identified	17	17	13	13	5	6
	Excluded	1	2	1	1	#	#
	Assessed without accommodations	2	3	1	1	1	2
	Assessed with accommodations	14	12	12	10	3	3
2015	Identified	17	19	13	13	5	7
	Excluded	1	2	#	1	#	#
	Assessed without accommodations	3	5	1	1	2	3
	Assessed with accommodations	13	13	11	11	3	3

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 9-B. Percentage of eighth-grade public school students with disabilities (SD) and/or English learners (EL) identified, excluded and assessed in NAEP mathematics as a percentage of all students, by assessment year and testing status: Various years, 1990–2024—Continued**

Year and testing status		SD and/or EL		SD		EL	
		Illinois	Nation (public)	Illinois	Nation (public)	Illinois	Nation (public)
2017	Identified	18	20	14	14	5	7
	Excluded	1	2	1	1	1	1
	Assessed without accommodations	3	6	1	3	2	3
	Assessed with accommodations	14	12	12	10	3	3
2019	Identified	19	21	14	15	7	8
	Excluded	1	2	1	1	#	1
	Assessed without accommodations	3	6	1	2	2	4
	Assessed with accommodations	15	13	12	11	4	3
2022	Identified	25	24	15	15	12	10
	Excluded	1	2	1	1	#	1
	Assessed without accommodations	7	8	2	2	6	6
	Assessed with accommodations	16	14	13	12	6	4
2024	Identified	27	25	15	15	15	11
	Excluded	2	2	1	1	2	1
	Assessed without accommodations	8	9	1	3	7	6
	Assessed with accommodations	17	14	13	11	7	4

— Not available.

Rounds to zero.

¹ Accommodations were not permitted for this assessment.

NOTE: Students identified as both SD and EL were counted only once under the combined SD and/or EL category, but were counted separately under the SD and EL categories. Detail may not sum to totals because of rounding.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 10-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by students with disabilities (SD) status, year and jurisdiction: Various years, 2000–2024

SD status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
SD							
2000	Nation (public)	10*	198*	71*	29*	6*	1*
	Illinois	9*	208	50	50	7	#
2003	Nation (public)	11*	214*	50*	50*	12*	1*
	Illinois	13*	215*	49*	51*	14	2
2005	Nation (public)	12*	218*	44*	56*	16	2*
	Illinois	12*	218*	43*	57*	16	1
2007	Nation (public)	11*	220*	40*	60*	19*	2
	Illinois	12*	221*	41*	59*	22	4
2009	Nation (public)	12*	220*	41*	59*	19*	2
	Illinois	13*	223*	38*	62*	23*	4
2011	Nation (public)	12*	218*	45*	55*	17	2*
	Illinois	12*	218*	43*	57*	19	2
2013	Nation (public)	13*	218*	45*	55*	18*	2
	Illinois	13*	213	53	47	16	3
2015	Nation (public)	13*	217*	46*	54*	16	2
	Illinois	13*	210	55	45	13	2
2017	Nation (public)	13*	214*	52	48	16	2
	Illinois	14	209	59	41	14	3
2019	Nation (public)	14*	214*	51*	49*	16	3
	Illinois	14	202	63	37	12	2
2022	Nation (public)	15*	211	54	46	15	2
	Illinois	14	214	51	49	17	3
2024	Nation (public)	16	211	53	47	16	3
	Illinois	15	206	60	40	14	3

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 10-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by students with disabilities (SD) status, year and jurisdiction: Various years, 2000–2024—Continued**

SD status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Not SD							
2000	Nation (public)	90*	227*	33*	67*	24*	3*
	Illinois	91*	225*	36*	64*	21*	2*
2003	Nation (public)	89*	236*	21*	79*	34*	4*
	Illinois	87*	236*	24*	76*	34*	5*
2005	Nation (public)	88*	240*	17*	83*	38*	5*
	Illinois	88*	235*	24*	76*	34*	5*
2007	Nation (public)	89*	241	16*	84*	41*	6*
	Illinois	88*	239	19	81	38	6*
2009	Nation (public)	88*	242	16*	84*	41*	6*
	Illinois	87*	241	18	82	40	7
2011	Nation (public)	88*	243	15*	85*	43	7*
	Illinois	88*	242	17	83	41	8
2013	Nation (public)	87*	244*	14*	86*	45	8*
	Illinois	87*	243	17	83	43	9
2015	Nation (public)	87*	243*	15*	85*	43	8*
	Illinois	87*	241	18	82	40	9
2017	Nation (public)	87*	243*	16*	84*	43	9*
	Illinois	86	243	18	82	43	10
2019	Nation (public)	86*	244*	15*	85*	45	10
	Illinois	86	243	16	84	43	9
2022	Nation (public)	85*	239*	21*	79*	39*	8*
	Illinois	86	241	20	80	41	10
2024	Nation (public)	84	242	19	81	44	10
	Illinois	85	241	20	80	42	10

Rounds to zero.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214–248; *NAEP Proficient*, 249–281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT

Table 10-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by students with disabilities (SD) status, year and jurisdiction: Various years, 2000–2024

SD status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
SD							
2000	Nation (public)	8*	229*	80	20	4*	#*
	Illinois	8*	223*	77	23	2	#
2003	Nation (public)	11*	242*	71*	29*	6*	1*
	Illinois	12*	241	72	28	5	1*
2005	Nation (public)	11*	244*	69*	31*	7	1*
	Illinois	13	244	69	31	5	#
2007	Nation (public)	9*	246*	67*	33*	8	1*
	Illinois	10*	246	68	32	7	#
2009	Nation (public)	10*	249*	64*	36*	9*	1
	Illinois	11*	250	62*	38*	8	1*
2011	Nation (public)	11*	249*	65*	35*	9*	2
	Illinois	12*	252*	64	36	10	2
2013	Nation (public)	12*	248*	66*	34*	8*	1
	Illinois	13	248	67	33	10	3
2015	Nation (public)	12*	246*	68*	32*	8	1
	Illinois	13	241	76	24	7	2
2017	Nation (public)	13*	246*	70*	30*	8*	2
	Illinois	13	242	76	24	7	1
2019	Nation (public)	14	247*	68*	32*	9*	2
	Illinois	14	242	75	25	7	#
2022	Nation (public)	14*	242*	73*	27*	7	1
	Illinois	15	246	70	30	7	1
2024	Nation (public)	14	238	75	25	7	2
	Illinois	14	241	73	27	11	4

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 10-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by students with disabilities (SD) status, year and jurisdiction: Various years, 2000–2024—Continued**

SD status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Not SD							
2000	Nation (public)	92*	275*	35	65	26*	5*
	Illinois	92*	279*	30	70	28*	4*
2003	Nation (public)	89*	280*	29*	71*	30	5*
	Illinois	88*	282	28	72	33	7*
2005	Nation (public)	89*	281*	28*	72*	31	6*
	Illinois	87	283	26*	74*	32	6*
2007	Nation (public)	91*	284*	26*	74*	33*	7*
	Illinois	90*	284	26*	74*	33	8*
2009	Nation (public)	90*	285*	24*	76*	35*	8
	Illinois	89*	287	23*	77*	36	8*
2011	Nation (public)	89*	287*	23*	77*	36*	9
	Illinois	88*	288*	22*	78*	36	9
2013	Nation (public)	88*	288*	22*	78*	38*	9
	Illinois	87	290*	20*	80*	40	10
2015	Nation (public)	88*	286*	24*	76*	36*	9
	Illinois	87	288*	21*	79*	36	8*
2017	Nation (public)	87*	287*	25*	75*	37*	11*
	Illinois	87	288*	25*	75*	36	11
2019	Nation (public)	86	286*	26*	74*	37*	11*
	Illinois	86	289*	24*	76*	38	12
2022	Nation (public)	86*	278	34*	66*	29*	7*
	Illinois	85	280	33	67	30*	8*
2024	Nation (public)	86	278	35	65	30	9
	Illinois	86	283	32	68	36	12

Rounds to zero.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 11-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by English learner (EL) status, year and jurisdiction: Various years, 2000–2024**

EL status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
EL							
2000	Nation (public)	6*	199*	70*	30*	4*	#
	Illinois	6*	‡	‡	‡	‡	‡
2003	Nation (public)	9*	214*	51	49	9*	#*
	Illinois	7*	204*	66*	34*	5*	#
2005	Nation (public)	10*	216	46	54	11*	1*
	Illinois	9*	204*	64*	36*	5*	1
2007	Nation (public)	10*	217	44*	56*	13*	1
	Illinois	8*	213	50	50	9	1
2009	Nation (public)	10*	218	43*	57*	12*	1*
	Illinois	7*	215	47	53	11	1
2011	Nation (public)	11*	219*	42*	58*	14*	1
	Illinois	7*	215	46	54	12	1
2013	Nation (public)	11*	219*	41*	59*	14	1
	Illinois	8*	211*	54*	46*	7	#
2015	Nation (public)	11*	218*	43*	57*	15	1
	Illinois	10*	211	53	47	8	#
2017	Nation (public)	12*	217	47	53	14	2
	Illinois	11*	209*	59*	41*	8	1
2019	Nation (public)	13*	219*	41*	59*	16	1
	Illinois	16	221	36	64	16	1
2022	Nation (public)	14	215	48	52	14*	1
	Illinois	20	219	43	57	15	2
2024	Nation (public)	14	216	48	52	16	2
	Illinois	18	217	44	56	14	1

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 11-A. Percentage of fourth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by English learner (EL) status, year and jurisdiction: Various years, 2000–2024—Continued**

EL status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Not EL							
2000	Nation (public)	94*	226*	34*	66*	24*	3*
	Illinois	94*	224*	35*	65*	21*	2*
2003	Nation (public)	91*	236*	21	79	34*	4*
	Illinois	93*	235*	24	76	34*	5*
2005	Nation (public)	90*	239*	18*	82*	38*	5*
	Illinois	91*	236*	22	78	34*	5*
2007	Nation (public)	90*	242	16*	84*	42*	6*
	Illinois	92*	239	19	81	39	6*
2009	Nation (public)	90*	242	16*	84*	41*	6*
	Illinois	93*	240	18	82	40	7
2011	Nation (public)	89*	243*	15*	85*	43	7*
	Illinois	93*	241	18	82	40	7
2013	Nation (public)	89*	244*	15*	85*	45	8*
	Illinois	92*	242	19	81	42	9
2015	Nation (public)	89*	243*	16*	84*	43	8*
	Illinois	90*	240	20	80	40	9
2017	Nation (public)	88*	242*	18*	82*	43	9*
	Illinois	89*	242	19	81	42	10
2019	Nation (public)	87*	243*	17*	83*	44	10
	Illinois	84	240	20	80	43	9
2022	Nation (public)	86	238*	23*	77*	39*	8*
	Illinois	80	242	20	80	43	11
2024	Nation (public)	86	241	21	79	43	10
	Illinois	82	240	22	78	43	10

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 4 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 213 or lower; *NAEP Basic*, 214-248; *NAEP Proficient*, 249-281; and *NAEP Advanced*, 282 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 11-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by English learner (EL) status, year and jurisdiction: Various years, 2000–2024**

EL status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
EL							
2000	Nation (public)	3*	234	80	20	2*	#
	Illinois	3*	‡	‡	‡	‡	‡
2003	Nation (public)	5*	241*	74*	26*	5	1
	Illinois	3*	237	80	20	4	#
2005	Nation (public)	6*	244*	71*	29*	6	1
	Illinois	2*	249	70	30	8	3
2007	Nation (public)	6*	245*	70*	30*	6	1
	Illinois	3*	257*	56*	44*	12	3
2009	Nation (public)	6*	243*	72*	28*	5	1
	Illinois	3*	249	68	32	7	#
2011	Nation (public)	6*	244*	72*	28*	5	1
	Illinois	4*	243	70	30	4	#
2013	Nation (public)	5*	245*	69*	31*	5	1
	Illinois	5*	241	74	26	3	1
2015	Nation (public)	6*	246*	69*	31*	5	1
	Illinois	5*	247	70	30	7	#
2017	Nation (public)	6*	245*	72*	28*	6	1
	Illinois	5*	247	73	27	6	1
2019	Nation (public)	7*	243*	73*	27*	5	1
	Illinois	6*	244	72	28	5	#
2022	Nation (public)	9*	241*	76	24	4	#
	Illinois	12	242	76	24	1*	#
2024	Nation (public)	11	237	77	23	5	1
	Illinois	14	242	74	26	4	1

See notes at end of table.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 11-B. Percentage of eighth-grade public school students, average scale score, and achievement-level results in NAEP mathematics, by English learner (EL) status, year and jurisdiction: Various years, 2000–2024—Continued**

EL status, year, and jurisdiction		Percentage of students	Average scale score	PERCENT			
				Below <i>NAEP Basic</i>	At or above <i>NAEP Basic</i>	At or above <i>NAEP Proficient</i>	At <i>NAEP Advanced</i>
Not EL							
2000	Nation (public)	97*	273*	37	63	26*	5*
	Illinois	97*	275*	33	67	27*	4*
2003	Nation (public)	95*	278*	31*	69*	29	5*
	Illinois	97*	279	31	69	30*	6*
2005	Nation (public)	94*	280*	30*	70*	30	6*
	Illinois	98*	278*	31	69	29*	5*
2007	Nation (public)	94*	282*	27*	73*	33*	7*
	Illinois	97*	281	29	71	31*	7*
2009	Nation (public)	94*	284*	26*	74*	34*	8
	Illinois	97*	283	26*	74*	34	7*
2011	Nation (public)	94*	285*	25*	75*	35*	8
	Illinois	96*	285	25*	75*	34	8*
2013	Nation (public)	95*	286*	25*	75*	36*	9
	Illinois	95*	287	24*	76*	38	10
2015	Nation (public)	94*	284*	27*	73*	34*	8
	Illinois	95*	284	25*	75*	34	8*
2017	Nation (public)	94*	284*	28*	72*	35*	10*
	Illinois	95*	283	30	70	34	10
2019	Nation (public)	93*	284*	29*	71*	35*	10*
	Illinois	94*	285	28	72	36	11
2022	Nation (public)	91*	276	36	64	28*	7*
	Illinois	88	280	33	67	30*	8*
2024	Nation (public)	89	276	37	63	29	8
	Illinois	86	283	32	68	37	13

Rounds to zero.

‡ Reporting standards not met.

* Value is significantly different ($p < .05$) from the value for the same jurisdiction in 2024.

NOTE: The NAEP grade 8 mathematics scale ranges from 0 to 500. NAEP achievement levels correspond to the following points on the NAEP mathematics scales: below *NAEP Basic*, 261 or lower; *NAEP Basic*, 262-298; *NAEP Proficient*, 299-332; and *NAEP Advanced*, 333 or above. At or above *NAEP Basic* includes *NAEP Basic*, *NAEP Proficient*, and *NAEP Advanced*. At or above *NAEP Proficient* includes *NAEP Proficient* and *NAEP Advanced*. All differences were calculated and tested using unrounded numbers.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 2000–2024 Mathematics Assessments.

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 12-A. Number of fourth-grade public school students assessed in NAEP mathematics and weighted percentage excluded, by state/jurisdiction: 2024**

State/jurisdiction	Number assessed	Weighted percentage excluded
Nation (public)	112,700	2
Alabama	1,700	2
Alaska	1,800	1
Arizona	1,900	2
Arkansas	1,800	2
California	3,800	2
Colorado	2,400	3
Connecticut	1,800	3
Delaware	1,700	4
Florida	5,300	2
Georgia	2,700	2
Hawaii	1,700	2
Idaho	1,800	3
Illinois	2,800	3
Indiana	1,700	3
Iowa	1,800	2
Kansas	1,900	2
Kentucky	2,400	2
Louisiana	1,700	2
Maine	1,800	2
Maryland	2,600	2
Massachusetts	2,700	5
Michigan	2,700	2
Minnesota	2,000	3
Mississippi	1,800	2
Missouri	1,700	2
Montana	1,700	1
Nebraska	2,000	1
Nevada	2,000	2
New Hampshire	1,800	2
New Jersey	1,800	3
New Mexico	2,200	2
New York	2,500	3
North Carolina	3,700	2
North Dakota	1,800	2
Ohio	2,400	2
Oklahoma	1,700	2
Oregon	1,800	2
Pennsylvania	2,500	3
Rhode Island	1,800	2
South Carolina	1,800	2
South Dakota	1,800	1
Tennessee	1,800	2
Texas	5,700	3
Utah	1,900	2
Vermont	1,800	2
Virginia	1,800	2
Washington	1,900	2
West Virginia	1,700	2
Wisconsin	2,700	2
Wyoming	1,900	2
Other jurisdictions		
District of Columbia	1,800	4
DoDEA ¹	2,500	2

¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The number of students assessed is rounded to the nearest hundred.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment

THE NATION'S REPORT CARD 2024 STATE ASSESSMENT**Table 12-B. Number of eighth-grade public school students assessed in NAEP mathematics and weighted percentage excluded, by state/jurisdiction: 2024**

State/jurisdiction	Number assessed	Weighted percentage excluded
Nation (public)	111,300	2
Alabama	1,900	2
Alaska	1,700	1
Arizona	1,800	1
Arkansas	1,800	1
California	3,800	2
Colorado	2,300	2
Connecticut	1,800	2
Delaware	1,800	3
Florida	5,400	2
Georgia	2,600	2
Hawaii	1,700	1
Idaho	1,800	1
Illinois	2,900	2
Indiana	1,800	2
Iowa	1,900	1
Kansas	1,800	2
Kentucky	2,400	1
Louisiana	1,700	2
Maine	1,700	2
Maryland	2,500	2
Massachusetts	2,400	3
Michigan	2,500	1
Minnesota	2,000	3
Mississippi	1,900	2
Missouri	1,900	1
Montana	1,700	2
Nebraska	2,000	2
Nevada	2,000	2
New Hampshire	1,700	2
New Jersey	1,800	3
New Mexico	2,200	2
New York	2,400	2
North Carolina	3,600	2
North Dakota	1,600	3
Ohio	2,500	2
Oklahoma	1,700	2
Oregon	1,800	1
Pennsylvania	2,500	2
Rhode Island	1,900	2
South Carolina	1,800	2
South Dakota	1,900	2
Tennessee	1,800	2
Texas	5,600	3
Utah	2,000	2
Vermont	1,700	2
Virginia	1,800	1
Washington	1,900	3
West Virginia	1,700	1
Wisconsin	2,600	2
Wyoming	1,700	1
Other jurisdictions		
District of Columbia	1,800	2
DoDEA ¹	1,800	1

¹ Department of Defense Education Activity (overseas and domestic schools).

NOTE: The number of students assessed is rounded to the nearest hundred.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2024 Mathematics Assessment

Where to Find More Information

The NAEP Mathematics Assessment

More information about the 2024 NAEP mathematics assessment and the results can be found on the NAEP website at <https://nces.ed.gov/nationsreportcard/mathematics>. The individual snapshot reports for each participating state and other jurisdictions are also available in the state results section of the website at <https://nces.ed.gov/nationsreportcard/states/>.

The *Mathematics Framework for the National Assessment of Educational Progress*, on which this assessment is based, is available at the National Assessment Governing Board website at <https://www.nagb.gov/naep-frameworks/mathematics.html>.

The NAEP Data Explorer (NDE)

The NAEP Data Explorer (NDE), available at <https://nces.ed.gov/nationsreportcard/naepdata/>, is an interactive database with which users can design and create tables and perform tests of statistical significance. The NDE includes student, teacher, and school variables for all participating districts, states, and the nation. Data tables are also available for participating districts, with all contextual questions cross-tabulated with the major demographic variables.

Technical Documentation on the Web (TDW)

The [Technical Documentation on the Web \(TDW\)](#) section of the NAEP website is written for researchers and assumes knowledge of educational measurement and testing. TDW contains information about the technical procedures and methods of NAEP: how the assessment is designed and conducted, and how data are analyzed.

Publications on the inclusion of students with disabilities and English learners

References for a variety of research publications related to the assessment of SD and/or EL students may be found at <https://nces.ed.gov/nationsreportcard/about/inclusion.asp#research>.

To order publications:

Some recent NAEP publications related to mathematics are accessible via the mathematics page of the NAEP website (<https://nces.ed.gov/nationsreportcard/mathematics/>, under "Mathematics Publications"). These and others are available through the IES Publications and Products Search site at: <https://ies.ed.gov/pubsearch/>. Publications can also be ordered from:

Education Publications Center (ED Pubs)
U.S. Department of Education
P.O. Box 22207
Alexandria, VA 22304

Call toll free: 1-877-4ED-Pubs (1-877-433-7827)
TTY/TDD: 1-877-576-7734
FAX: 1-703-605-6794
Order online at: <https://www.ed.gov/edpubs/>.

The NAEP State Report Generator was developed for the NAEP 2024 reports by Phillip Leung, Tao Wang, Hui-Jou Chou, Nicole Fiorentino, Carol Eckerly, Han Hui Por, Laura Jerry, Jillian McCarthy, and Ming Kuang.

What is the Nation's Report Card™?

The Nation's Report Card™ informs the public about the academic achievement of elementary and secondary students in the United States. Report cards communicate the findings of the National Assessment of Educational Progress (NAEP), a continuing and nationally representative measure of achievement in various subjects over time.

Since 1969, NAEP assessments have been conducted periodically in reading, mathematics, science, writing, U.S. history, civics, geography, and other subjects. NAEP collects and reports information on student performance at the national, state, and local levels, making the assessment an integral part of our nation's evaluation of the condition and progress of education. Only academic achievement data and related background information are collected. The privacy of individual students and their families is protected.

NAEP is a congressionally authorized project of the National Center for Education Statistics (NCES) within the Institute of Education Sciences of the U.S. Department of Education. The Commissioner of Education Statistics is responsible for carrying out the NAEP project. The National Assessment Governing Board oversees and sets policy for NAEP.

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