

Chapter 8. State Indicators

8-2B Fourth Grade Mathematics Proficiency, Black Students

Description

This indicator represents the proportion of a state's fourth grade students in public schools that met or exceeded the proficiency standard in mathematics. The National Assessment Governing Board sets performance standards that provide a context for interpreting National Assessment of Educational Progress (NAEP) results. The standards define "proficiency," as well as "advanced" and "basic" accomplishment. For the fourth grade, the basic level (scores 214–248) denotes partial mastery of knowledge and skills that are prerequisite for proficient work. The proficient level (249–281) represents solid academic performance and demonstrates competency over challenging subject-matter knowledge. The advanced level (282–500) signifies superior performance.

The National Center for Education Statistics has determined that achievement levels are to be used on a trial basis and should be interpreted with caution. However, both the Commissioner of Education Statistics and the National Assessment Governing Board state these performance standards are useful for understanding trends in student achievement.

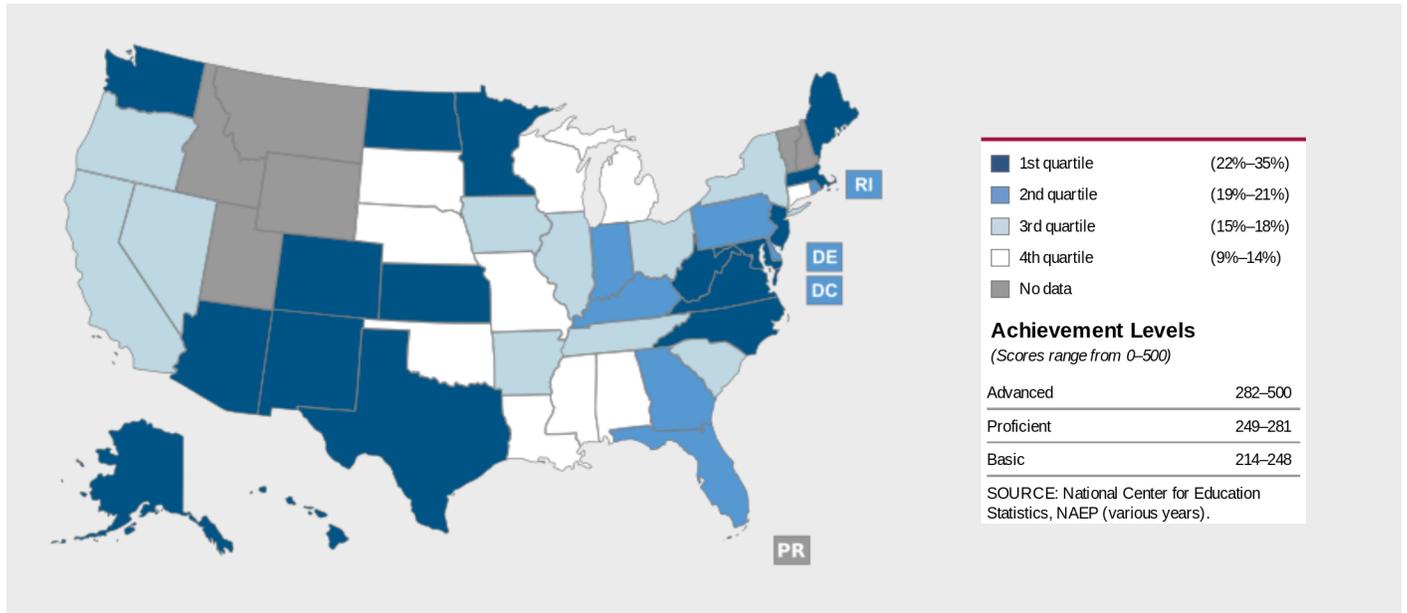
Approximately 180,000 fourth grade students, of whom 29,000 were black, participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency were allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All data presented here represent scores from tests taken with accommodations offered. Demographic percentages of test takers by state are included in this indicator's standard error table. For national data across all demographic groups, see indicator 8-2.

Findings

- Percentages of fourth grade black test takers in 2013 varied on a state level from 1% to 52%. Nationally, in 2013, 16% of fourth grade mathematics test takers were black students compared with 17% in 2003.
- In 2013, 18% of black students nationwide performed at or above the proficient level in mathematics, an increase from 10% in 2003. In 2013, 41% of students nationwide performed at or above the proficient level in mathematics.
- Proficiency varied significantly across states, ranging from 9% to 35%.
- None of the reported statewide averages were lower in 2013 than in 2003; almost all reported statewide averages were higher in 2013 than in 2003. Statewide averages for Alaska, Connecticut, Michigan, Nebraska, Oregon, South Carolina, and Wisconsin were virtually the same in 2013 as in 2003.

8-2B Fourth Grade Mathematics Proficiency, Black Students

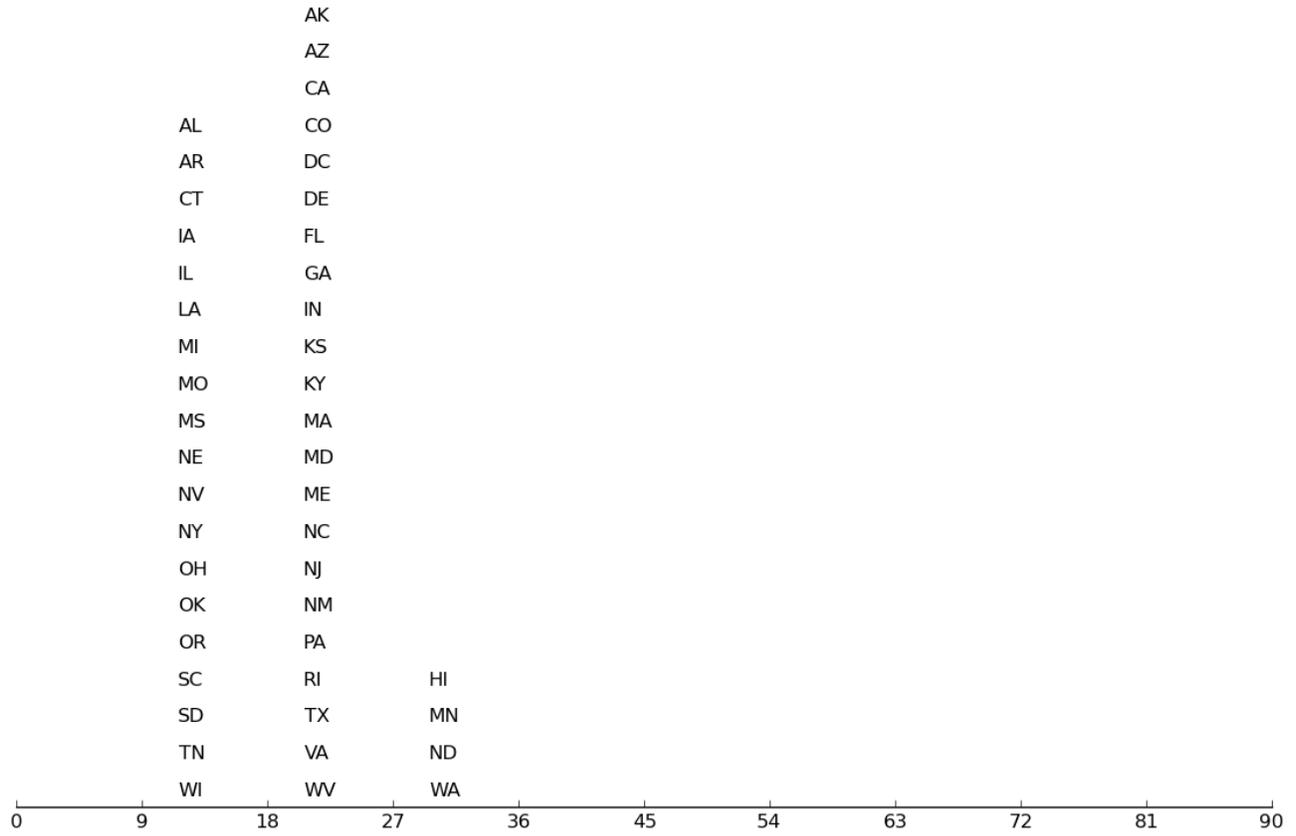
Year: 2013



8-2B Fourth Grade Mathematics Proficiency, Black Students

Year: 2013

Distribution of states across indicator values



Chapter 8. State Indicators


Table 8-2B Fourth Grade Mathematics Proficiency, Black Students

State	4th grade math proficiency, black students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	4	10	13	15	15	17	18
Alabama	4	5	7	10	7	9	9
Alaska	NA	15	20	22	17	15	22
Arizona	6	11	13	16	19	22	24
Arkansas	2	5	10	12	12	16	17
California	3	9	12	15	13	19	18
Colorado	NA	12	18	20	23	21	22
Connecticut	7	10	11	15	14	15	14
Delaware	NA	12	15	20	17	19	21
District of Columbia	2	4	5	8	9	13	19
Florida	NA	8	16	15	20	18	20
Georgia	5	11	12	13	15	18	20
Hawaii	6	16	16	24	33	32	34
Idaho	S	S	S	S	S	S	S
Illinois	4	7	9	9	11	14	16
Indiana	10	7	13	14	13	15	21
Iowa	11	9	15	17	17	18	16
Kansas	4	13	24	21	18	18	22
Kentucky	2	8	9	12	14	17	19
Louisiana	4	6	9	11	8	12	13
Maine	S	S	S	17	28	10	25
Maryland	6	11	14	17	21	23	22
Massachusetts	7	13	18	26	30	27	26
Michigan	3	7	8	12	9	8	10
Minnesota	12	16	15	16	25	23	32

4th grade math proficiency, black students (Percent)							
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	2	6	7	9	8	10	11
Missouri	4	9	9	12	17	14	13
Montana	S	S	S	S	S	S	S
Nebraska	5	7	7	9	10	7	12
Nevada	4	10	10	16	12	23	17
New Hampshire	NA	S	S	25	S	27	S
New Jersey	NA	11	17	25	19	24	24
New Mexico	S	10	6	18	19	19	24
New York	5	12	13	18	19	17	17
North Carolina	9	14	17	15	18	18	22
North Dakota	S	S	S	S	S	S	35
Ohio	2	10	16	18	14	20	16
Oklahoma	4	6	11	10	14	14	14
Oregon	6	20	12	16	18	14	16
Pennsylvania	NA	8	13	18	17	17	19
Rhode Island	3	7	9	16	15	20	19
South Carolina	4	13	13	14	14	13	15
South Dakota	NA	S	S	15	17	21	14
Tennessee	4	6	9	9	7	12	15
Texas	10	15	18	21	23	25	24
Utah	S	S	S	S	15	S	S
Vermont	S	S	S	S	S	S	S
Virginia	5	13	14	18	16	20	22
Washington	NA	17	26	17	24	20	29
West Virginia	5	13	17	19	20	20	25
Wisconsin	S	8	7	10	11	12	12
Wyoming	S	S	S	S	S	S	S
Puerto Rico	NA						

4th grade math proficiency, black students (Percent)

State	2000	2003	2005	2007	2009	2011	2013
-------	------	------	------	------	------	------	------

NA = not available; S = data are suppressed because reporting standards were not met.

SOURCE: National Center for Education Statistics, NAEP (various years).

NOTES: The National Assessment of Educational Progress (NAEP) scores are for public schools only. The national value for the United States is the reported value in the NAEP reports. Black includes African American.

Science and Engineering Indicators 2016