

Chapter 8. State Indicators

8-1B Fourth Grade Mathematics Performance, Black Students

Description

This indicator represents the average score in mathematics of each state's fourth grade public school students on the National Assessment of Educational Progress (NAEP). The NAEP mathematics assessment is a congressionally authorized measure of student performance that is conducted by the National Center for Education Statistics. It measures students' knowledge and skills in mathematics and their ability to apply that knowledge in the content areas of number properties and operations; measurement; geometry; data analysis, statistics, and probability; and algebra. Student performance is presented in terms of average scores on a scale from 0 to 500.

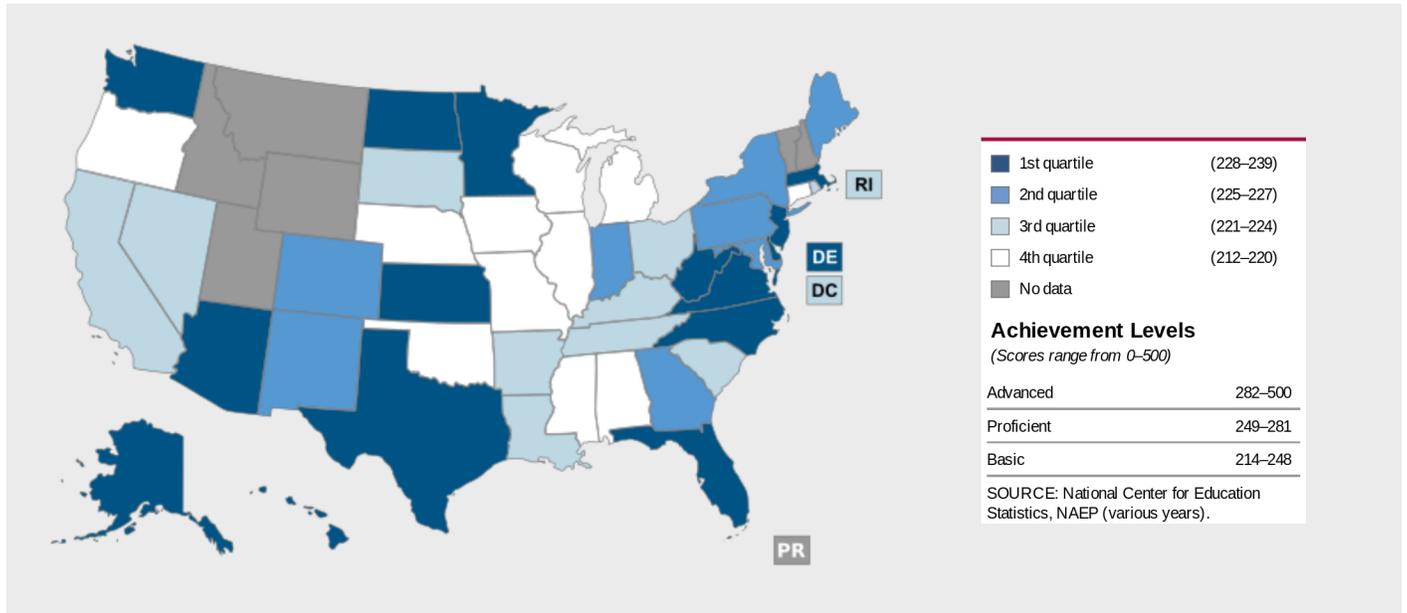
Approximately 180,000 public fourth grade students, of whom almost 29,000 were black, participated in the 2013 NAEP mathematics assessment. All 50 states and the District of Columbia participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency 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 8-1.

Findings

- Percentages of black test takers varied in 2013 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, the nationwide average mathematics score of black fourth grade students was 224, an increase from 216 in 2003. In 2013, the nationwide average mathematics score of fourth grade students was 241.
- Average mathematics scores varied significantly across the states, ranging from 212 to 239.
- None of the statewide averages were lower in 2013 than in 2003; however, only 32 statewide averages were higher in 2013 than in 2003. The remaining averages were virtually the same in 2013 as in 2003.

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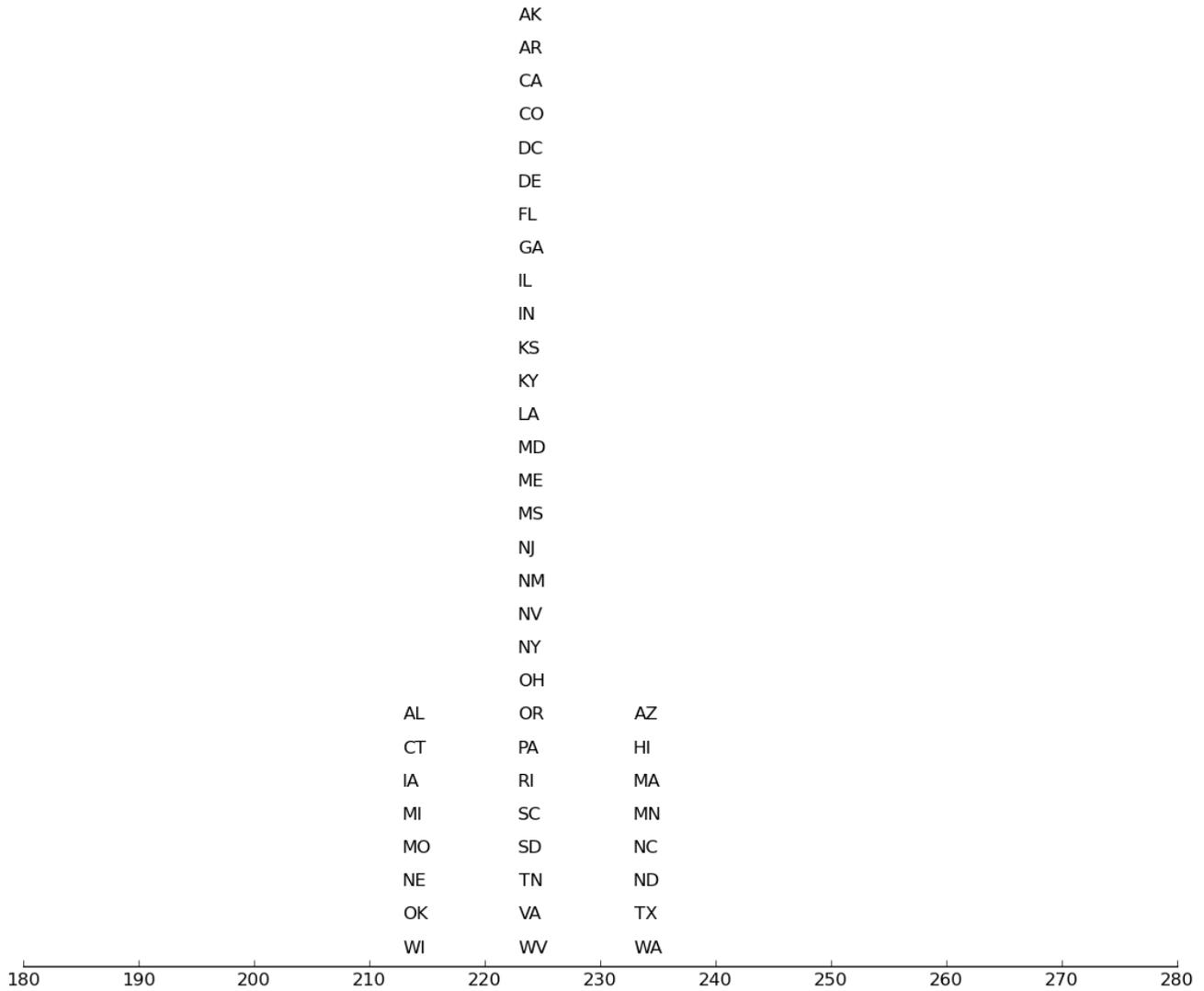
Year: 2013



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Distribution of states across indicator values



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Table 8-1B Fourth Grade Mathematics Performance, Black Students

State	4th grade math performance, black students (Score out of 500)						
	2000	2003	2005	2007	2009	2011	2013
United States	203	216	220	222	222	224	224
Alabama	203	208	211	213	211	215	215
Alaska	NA	221	226	227	225	225	228
Arizona	207	215	217	219	222	224	230
Arkansas	194	206	214	217	217	219	223
California	194	213	215	218	217	225	221
Colorado	NA	217	222	224	225	225	227
Connecticut	210	217	219	220	222	220	219
Delaware	NA	223	226	230	226	227	229
District of Columbia	188	202	207	209	213	215	221
Florida	NA	215	224	225	228	226	228
Georgia	204	217	221	222	221	224	226
Hawaii	211	221	221	230	232	233	232
Idaho	S	S	S	S	S	S	S
Illinois	202	210	212	216	216	219	220
Indiana	211	215	221	224	222	223	227
Iowa	216	215	224	224	226	224	218
Kansas	208	217	228	226	224	227	228
Kentucky	196	214	217	219	220	225	224
Louisiana	205	213	219	219	218	219	221
Maine	S	S	S	221	228	212	227
Maryland	202	216	220	223	228	230	227
Massachusetts	213	222	228	232	236	235	230
Michigan	199	209	211	216	212	211	212
Minnesota	208	219	219	222	227	225	232

4th grade math performance, black students (Score out of 500)

State	2000	2003	2005	2007	2009	2011	2013
Mississippi	198	212	216	217	215	217	220
Missouri	202	216	215	218	221	216	219
Montana	S	S	S	S	S	S	S
Nebraska	193	211	211	211	213	213	215
Nevada	203	215	214	219	218	226	221
New Hampshire	NA	S	S	226	S	235	S
New Jersey	NA	217	224	232	228	231	229
New Mexico	S	216	213	220	225	226	225
New York	210	219	222	225	225	224	225
North Carolina	215	225	225	224	226	229	230
North Dakota	S	S	S	S	S	S	239
Ohio	206	217	221	225	222	226	222
Oklahoma	205	211	217	220	222	224	219
Oregon	196	223	222	219	223	215	220
Pennsylvania	NA	212	219	222	223	224	226
Rhode Island	200	210	211	219	221	225	224
South Carolina	203	222	223	221	220	220	222
South Dakota	NA	S	S	221	225	227	221
Tennessee	198	208	214	214	213	216	221
Texas	220	226	228	230	231	232	231
Utah	S	S	S	S	221	S	S
Vermont	S	S	S	S	S	S	S
Virginia	211	223	224	228	225	229	229
Washington	NA	222	231	222	227	227	231
West Virginia	205	221	226	223	225	227	228
Wisconsin	S	209	210	212	217	217	216
Wyoming	S	S	S	S	S	S	S
Puerto Rico	NA						

4th grade math performance, black students (Score out of 500)

State	2000	2003	2005	2007	2009	2011	2013
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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