Chapter 8. State Indicators

8-1A Fourth Grade Mathematics Performance, White 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 92,000 were white, 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 white test takers varied in 2013 on a state level from 16% to 92%. Nationally, in 2013, 51% of fourth grade mathematics test takers were white students compared with 58% in 2003.
- In 2013, the nationwide average mathematics score of white fourth grade students was 250, an increase from 243 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 238 to 260.
- The statewide average in 2013 was not lower than the corresponding 2003 statewide average for any state. However, the statewide averages for Illinois, Louisiana, Michigan, and South Carolina were virtually the same in 2013 as in 2003; the remaining statewide averages were larger in 2013 than 2003.

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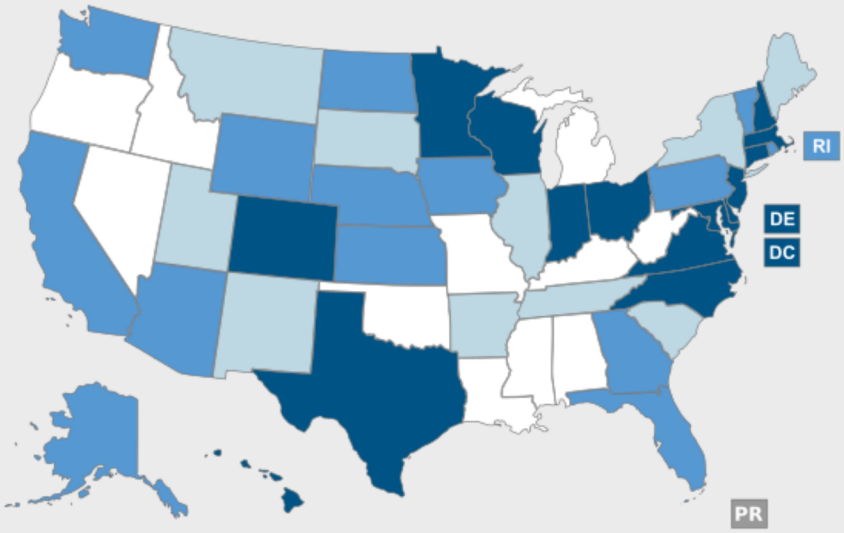
Year: 2013



1st quartile	(252–276)
2nd quartile	(249–251)
3rd quartile	(246–248)
4th quartile	(238–245)
No data	

Achievement Levels

(Scores range from 0–500)

Advanced	282–500
Proficient	249–281
Basic	214–248

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

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Distribution of states across indicator values

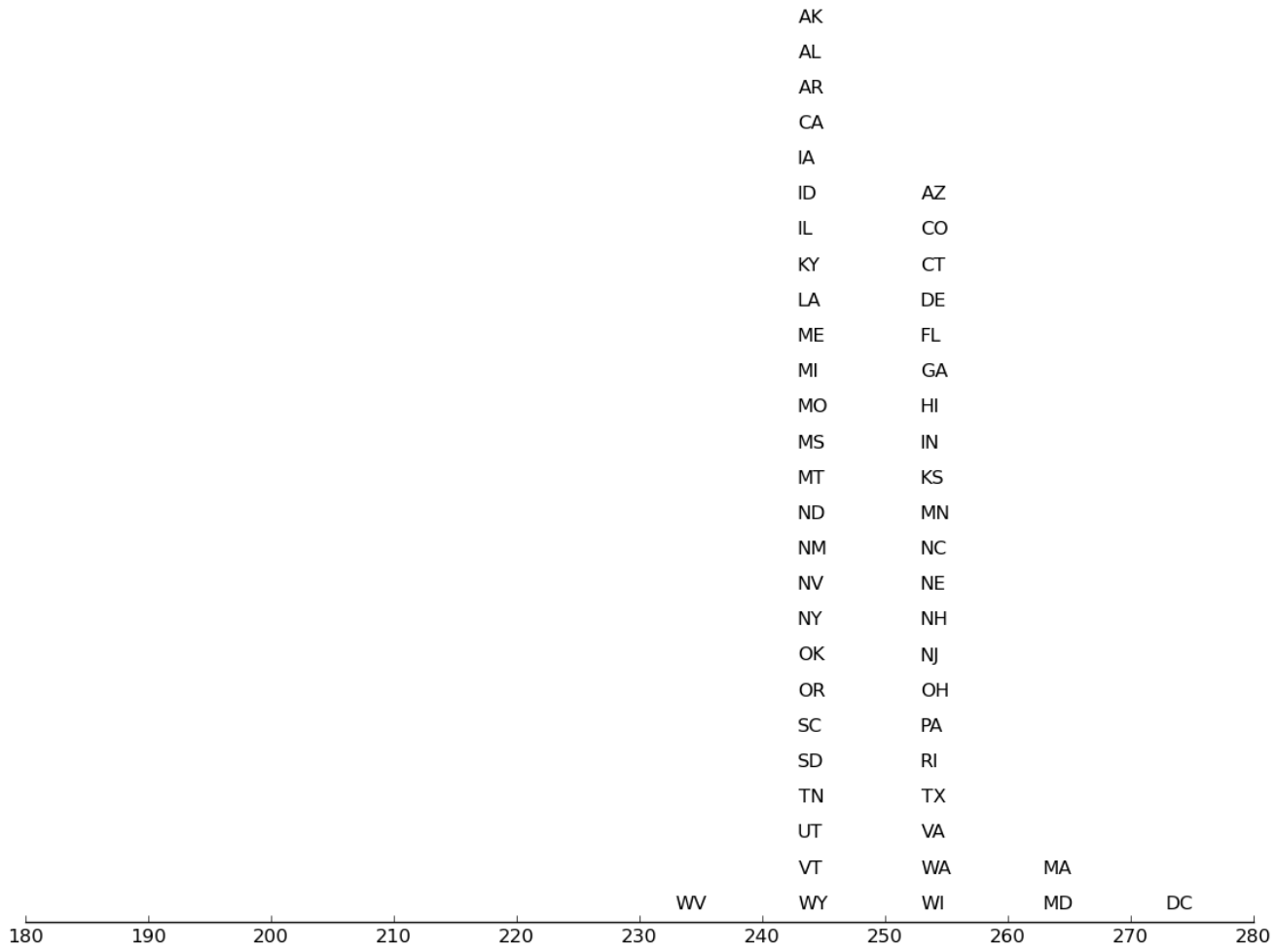

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Table 8-1A Fourth Grade Mathematics Performance, White Students

State	4th grade math performance, white students (Score out of 500)						
	2000	2003	2005	2007	2009	2011	2013
United States	233	243	246	248	248	249	250
Alabama	227	232	235	238	237	240	242
Alaska	NA	242	244	247	249	248	249
Arizona	230	241	243	246	243	246	251
Arkansas	225	237	242	245	245	244	246
California	228	243	245	247	247	252	249
Colorado	NA	243	247	249	252	254	256
Connecticut	242	250	250	252	253	253	253
Delaware	NA	244	249	249	249	250	252
District of Columbia	254	262	266	262	270	272	276
Florida	NA	243	247	250	250	250	251
Georgia	230	241	243	246	247	249	250
Hawaii	227	238	241	244	247	248	253
Idaho	227	238	245	245	244	244	244
Illinois	235	244	245	248	249	249	248
Indiana	235	242	245	249	247	249	252
Iowa	233	241	242	245	245	246	249
Kansas	237	246	249	252	251	251	250
Kentucky	223	231	234	238	241	243	244
Louisiana	230	242	241	240	241	241	242
Maine	230	238	241	243	245	246	247
Maryland	236	244	250	251	255	258	260
Massachusetts	239	247	252	257	258	258	260
Michigan	237	244	245	244	243	242	244
Minnesota	238	246	251	252	255	255	259

	4th grade math performance, white students (Score out of 500)						
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	222	236	238	239	241	241	243
Missouri	233	240	240	245	245	246	245
Montana	231	238	243	247	247	247	248
Nebraska	230	241	244	244	245	247	251
Nevada	226	236	240	243	245	247	245
New Hampshire	NA	244	246	250	252	252	254
New Jersey	NA	248	251	255	255	256	254
New Mexico	227	237	238	242	245	247	246
New York	238	246	247	251	248	245	248
North Carolina	238	251	250	251	254	253	254
North Dakota	232	240	245	248	248	249	249
Ohio	235	243	248	250	249	249	252
Oklahoma	229	235	240	242	241	243	245
Oregon	227	240	243	241	243	243	245
Pennsylvania	NA	243	247	249	249	251	250
Rhode Island	232	239	241	242	247	249	250
South Carolina	233	246	250	248	245	248	247
South Dakota	NA	241	245	245	247	246	247
Tennessee	227	235	238	240	239	239	247
Texas	241	248	254	253	254	253	255
Utah	230	238	242	244	246	247	248
Vermont	232	242	244	247	248	248	249
Virginia	237	246	247	251	251	251	252
Washington	NA	242	246	248	247	249	251
West Virginia	224	231	231	237	233	235	238
Wisconsin	S	243	247	250	250	251	252
Wyoming	231	243	245	246	244	246	249
Puerto Rico	NA	NA	NA	NA	NA	NA	NA

	4th grade math performance, white students (Score out of 500)						
State	2000	2003	2005	2007	2009	2011	2013

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

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.

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

Science and Engineering Indicators 2016