

Chapter 8. State Indicators

8-2E Fourth Grade Mathematics Proficiency, Female 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.

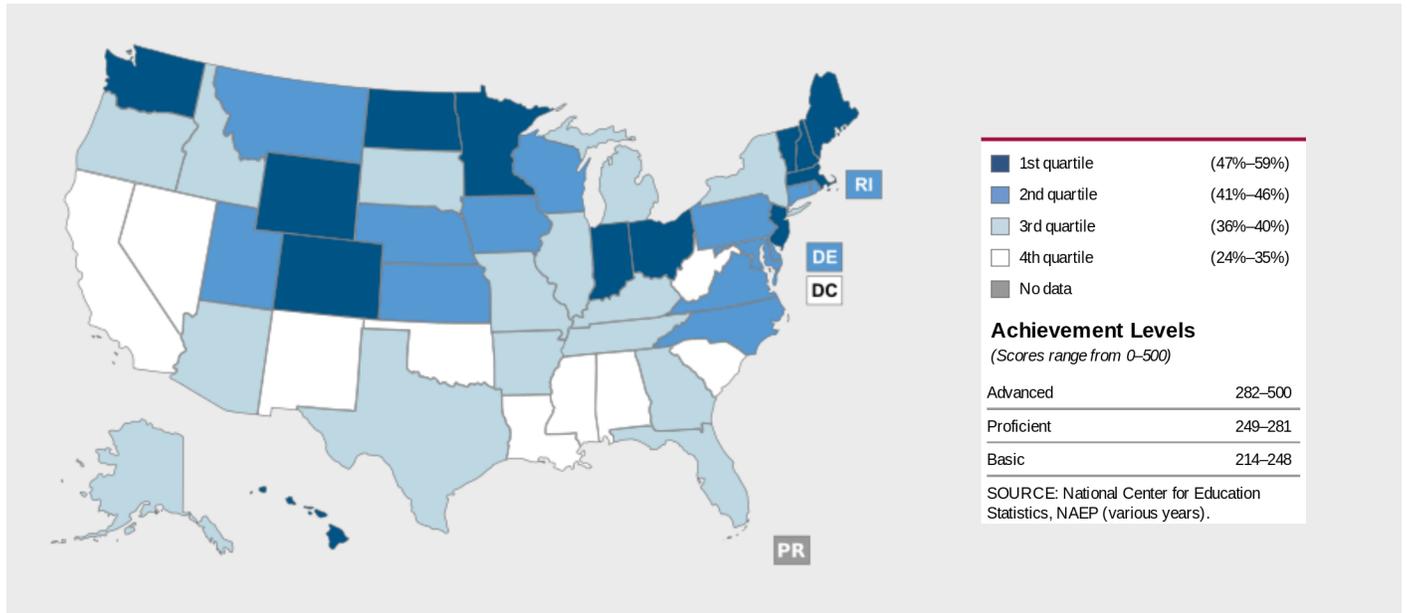
Approximately 180,000 fourth grade students in 7,540 schools participated in the 2013 NAEP mathematics assessment. Students with disabilities or limited English-language proficiency were allowed to use certain accommodations (e.g., extra testing time or individual rather than group administration). All 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

- In 2013, 40% of fourth grade female students nationwide performed at or above the proficient level in mathematics, an increase from 29% in 2003. In 2013, 41% of fourth grade students nationwide performed at or above the proficient level in mathematics.
- Proficiency varied significantly across states, ranging from 24% to 59%.
- None of the statewide averages were lower in 2013 than in 2003; all statewide averages were higher in 2013 than in 2003.

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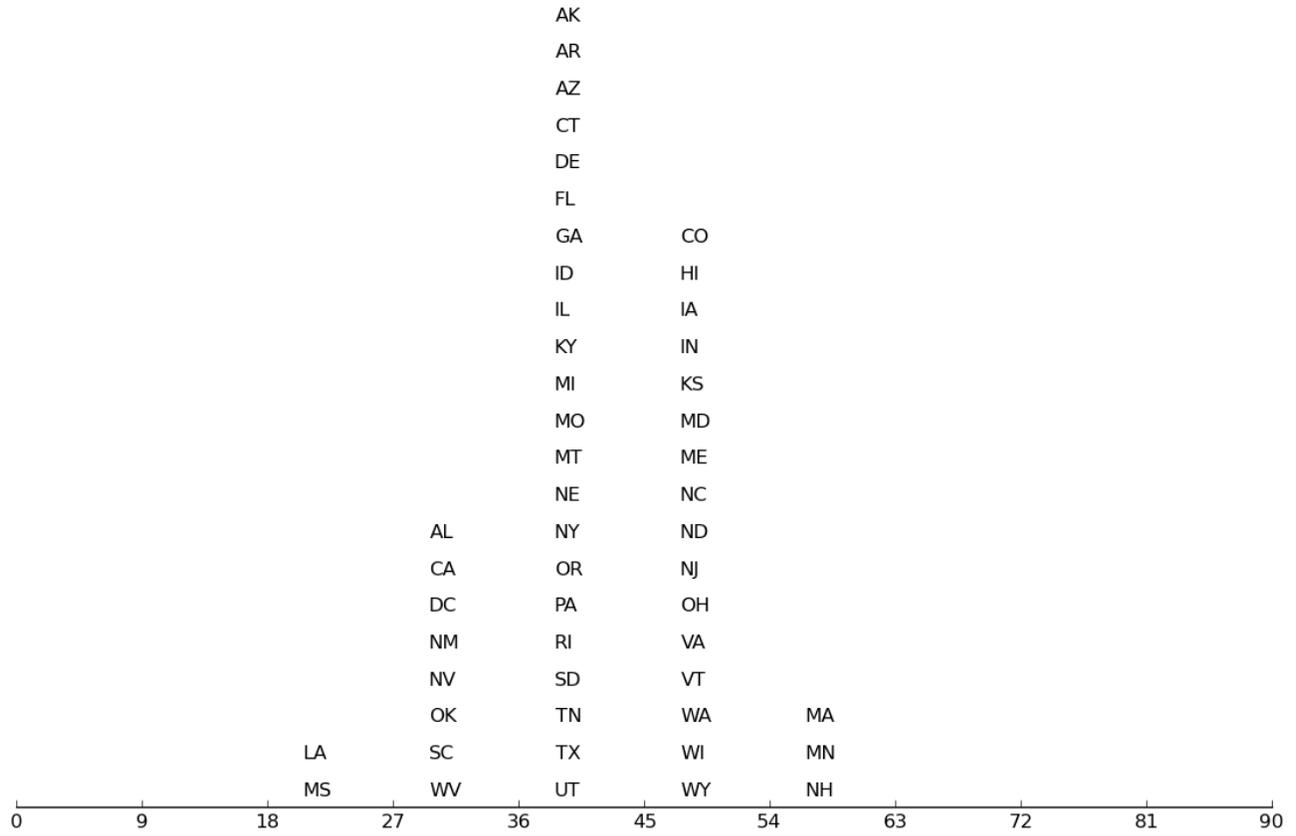
Year: 2013



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Distribution of states across indicator values



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Table 8-2E Fourth Grade Mathematics Proficiency, Female Students

State	4th grade math proficiency, female students (Percent)						
	2000	2003	2005	2007	2009	2011	2013
United States	20	29	33	36	37	39	40
Alabama	13	18	20	25	24	27	28
Alaska	NA	27	32	37	36	35	36
Arizona	15	23	24	27	26	31	39
Arkansas	13	25	32	35	34	37	39
California	13	22	26	28	29	33	30
Colorado	NA	31	36	38	44	45	47
Connecticut	29	37	40	43	44	44	44
Delaware	NA	29	34	40	33	37	42
District of Columbia	5	7	9	13	17	22	28
Florida	NA	29	35	38	39	36	40
Georgia	16	25	29	30	32	37	38
Hawaii	14	22	28	34	37	40	47
Idaho	19	27	39	38	39	38	36
Illinois	17	29	30	33	35	37	39
Indiana	28	34	38	45	41	42	52
Iowa	24	32	34	40	40	42	46
Kansas	26	39	45	48	44	47	46
Kentucky	15	20	24	29	34	38	40
Louisiana	13	20	21	24	21	26	24
Maine	20	31	36	40	42	42	47
Maryland	20	29	36	37	43	45	46
Massachusetts	29	38	48	55	55	57	58
Michigan	26	30	34	35	33	33	36
Minnesota	29	38	45	47	51	52	59

4th grade math proficiency, female students (Percent)							
State	2000	2003	2005	2007	2009	2011	2013
Mississippi	8	16	18	20	21	25	25
Missouri	22	29	28	37	39	41	37
Montana	21	29	34	42	41	43	42
Nebraska	23	31	33	35	37	37	41
Nevada	13	21	24	27	30	33	32
New Hampshire	NA	39	44	49	54	56	57
New Jersey	NA	36	43	49	46	49	48
New Mexico	10	14	17	23	25	28	28
New York	18	31	33	42	37	34	39
North Carolina	24	40	38	39	42	44	45
North Dakota	23	30	38	41	42	44	47
Ohio	21	34	40	43	43	44	47
Oklahoma	14	20	26	31	30	33	35
Oregon	20	31	37	32	34	36	38
Pennsylvania	NA	32	39	44	43	46	44
Rhode Island	19	27	29	32	36	42	41
South Carolina	15	29	35	36	32	36	35
South Dakota	NA	31	38	38	39	37	40
Tennessee	16	22	25	26	28	29	40
Texas	23	31	37	39	37	39	40
Utah	21	28	34	37	40	40	41
Vermont	29	39	39	47	49	46	51
Virginia	22	35	37	39	39	44	46
Washington	NA	33	41	41	42	43	48
West Virginia	15	22	22	30	26	29	34
Wisconsin	S	32	39	46	43	45	45
Wyoming	22	36	40	43	38	42	47
Puerto Rico	NA						



4th grade math proficiency, female students (Percent)

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.

Science and Engineering Indicators 2016