

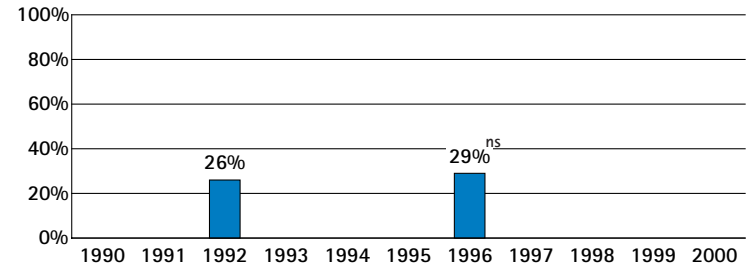
## 1. Improvement Over Time

Have Minnesota's 4th graders improved in mathematics achievement?

*Not yet. Between 1992 and 1996, there was no significant change in the percentage of public school 4th graders who met the Goals Panel's performance standard in mathematics.*

*The Goals Panel has set its performance standard at the two highest levels of achievement – Proficient or Advanced – on the National Assessment of Educational Progress, or NAEP.*

Percentage of public school 4th graders at or above Proficient on the NAEP mathematics assessment



<sup>ns</sup> Interpret with caution. Change was not statistically significant. Mathematics performance will be tested again in 2000.

## 2. State Comparisons<sup>†</sup>

How did Minnesota compare with other states in 4th grade mathematics achievement in public schools in 1996?

### 9 states had similar<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

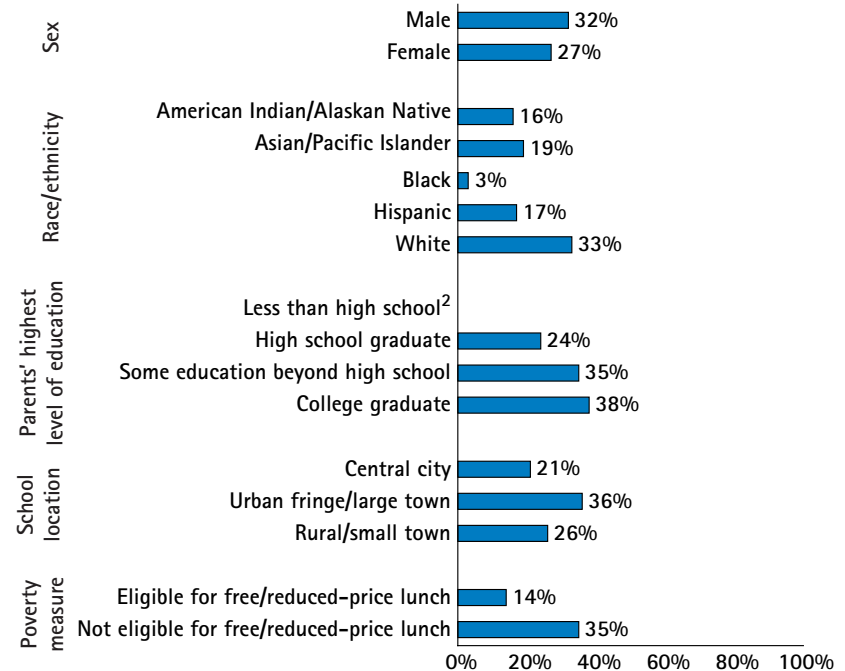
Connecticut	31%	New Jersey, Texas	25%
<b>Minnesota</b>	<b>29%</b>	Indiana, Massachusetts, Nebraska,	24%
Maine, Wisconsin	27%	North Dakota	

### 35 states had significantly lower<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

Michigan, Utah, Vermont	23%	Arizona, Florida	15%
Colorado, Iowa, Maryland, Montana	22%	Nevada	14%
<b>U.S.*</b> Alaska, North Carolina, Oregon, Washington	<b>21%</b>	Arkansas, Georgia, New Mexico	13%
Missouri, New York, Pennsylvania	20%	Alabama, California	11%
Virginia, West Virginia, Wyoming	19%	Louisiana, Mississippi	8%
Rhode Island, Tennessee	17%	District of Columbia	5%
Delaware, Hawaii, Kentucky	16%	Guam	3%

## 3. Subgroup Performance

What percentages of public school 4th graders in different subgroups<sup>1</sup> in Minnesota were at or above Proficient on the 1996 NAEP mathematics assessment?



<sup>1</sup> Interpret differences between subgroups with caution. See pp. 3-4 and Appendix D.  
<sup>2</sup> Characteristics of the sample do not permit a reliable estimate.

<sup>†</sup> The term "state" is used to refer to the 50 states, the District of Columbia, and the territories.

<sup>1</sup> See explanation on pp. 3-4.

\* Figure shown for the U.S. includes both public and nonpublic school data.

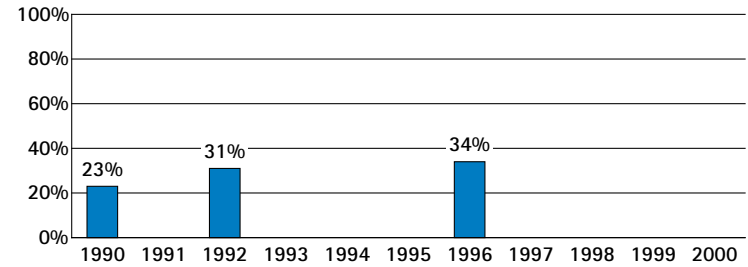
## 1. Improvement Over Time

Have Minnesota's 8th graders improved in mathematics achievement?

Yes. The percentage of Minnesota's public school 8th graders who met the Goals Panel's performance standard in mathematics increased from 23% in 1990, to 34% in 1996.

The Goals Panel has set its performance standard at the two highest levels of achievement – Proficient or Advanced – on the National Assessment of Educational Progress, or NAEP.

Percentage of public school 8th graders at or above Proficient on the NAEP mathematics assessment



Mathematics performance will be tested again in 2000.

## 2. State Comparisons<sup>†</sup>

How did Minnesota compare with other states in 8th grade mathematics achievement in public schools in 1996?

### 10 states had similar<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

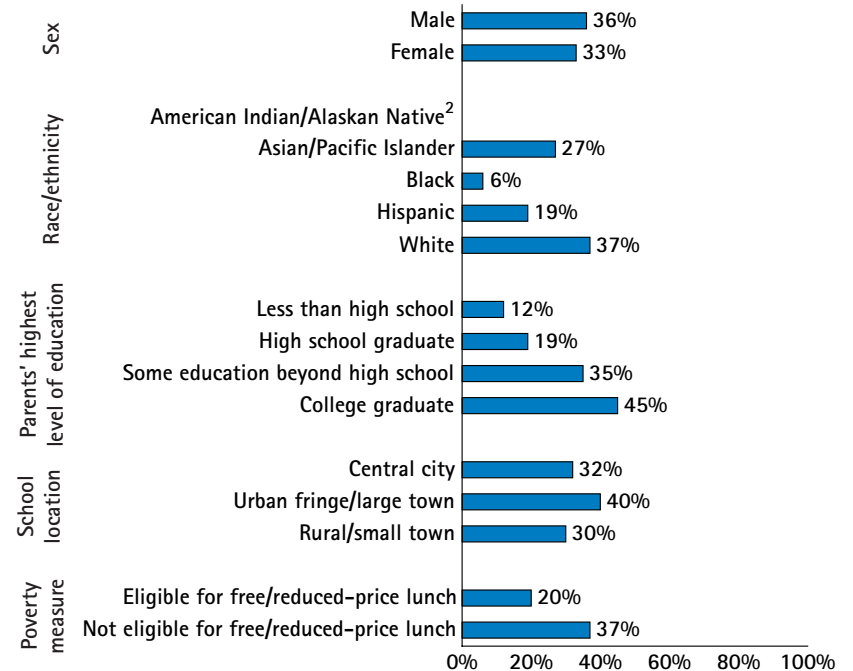
<b>Minnesota</b>	<b>34%</b>	Connecticut, Iowa, Maine, Nebraska	31%
North Dakota	33%	Alaska	30%
Montana, Wisconsin	32%	Massachusetts, Michigan	28%

### 31 states had significantly lower<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

Vermont	27%	Georgia, Hawaii, Kentucky	16%
Oregon, Washington	26%	Tennessee	15%
Colorado	25%	New Mexico, South Carolina,	14%
<b>U.S.*</b> , <sup>2</sup> Indiana, Maryland, Utah	<b>24%</b>	West Virginia	
Missouri, New York, Wyoming	22%	Arkansas	13%
Texas, Virginia	21%	Alabama	12%
North Carolina, Rhode Island	20%	Louisiana, Mississippi	7%
Delaware	19%	Guam	6%
Arizona	18%	District of Columbia	5%
California, Florida	17%		

## 3. Subgroup Performance

What percentages of public school 8th graders in different subgroups<sup>1</sup> in Minnesota were at or above Proficient on the 1996 NAEP mathematics assessment?



<sup>†</sup> The term "state" is used to refer to the 50 states, the District of Columbia, and the territories.

<sup>1</sup> See explanation on pp. 3-4.

\* Figure shown for the U.S. includes both public and nonpublic school data.

<sup>1</sup> Interpret differences between subgroups with caution. See pp. 3-4 and Appendix D.

<sup>2</sup> Characteristics of the sample do not permit a reliable estimate.

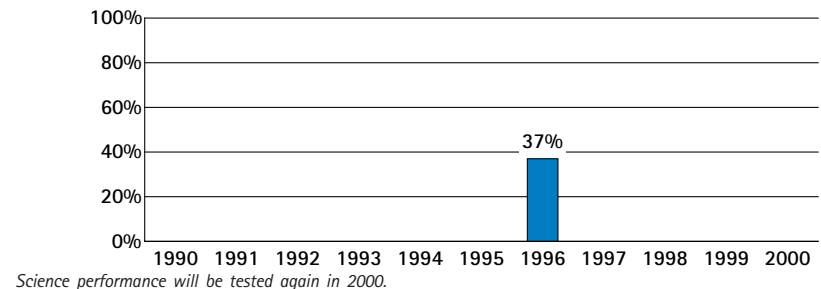
## 1. Improvement Over Time

Have Minnesota's 8th graders improved in science achievement?

In 1996, 37% of Minnesota's public school 8th graders met the Goals Panel's performance standard in science. The Goals Panel will report whether science performance has improved over time when science is assessed again in 2000.

The Goals Panel has set its performance standard at the two highest levels of achievement – Proficient or Advanced – on the National Assessment of Educational Progress, or NAEP.

Percentage of public school 8th graders at or above Proficient on the NAEP science assessment



## 2. State Comparisons<sup>†</sup>

How did Minnesota compare with other states in 8th grade science achievement in public schools in 1996?

### 13 states had similar<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

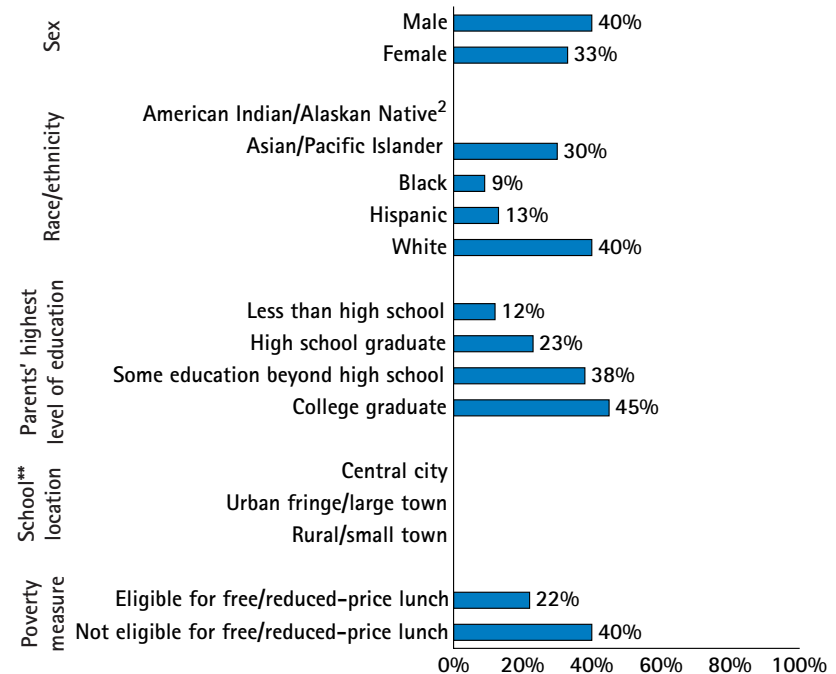
Maine, Montana, North Dakota	41%	Nebraska	35%
Wisconsin	39%	Vermont, Wyoming	34%
<b>Minnesota</b> , Massachusetts	<b>37%</b>	Colorado, <sup>2</sup> Michigan, <sup>2</sup> Oregon <sup>2</sup>	32%
Connecticut, Iowa	36%		

### 28 states had significantly lower<sup>1</sup> percentages of students who were at or above Proficient on NAEP:

Utah <sup>2</sup>	32%	Delaware, Florida, Georgia,	21%
Alaska	31%	West Virginia	
Indiana	30%	California	20%
<b>U.S.*</b>	<b>29%</b>	New Mexico	19%
Missouri	28%	Alabama	18%
New York, Virginia, Washington	27%	South Carolina	17%
Rhode Island	26%	Hawaii	15%
Maryland	25%	Louisiana	13%
North Carolina	24%	Mississippi	12%
Arizona, Kentucky, Texas	23%	Guam	7%
Arkansas, Tennessee	22%	District of Columbia	5%

## 3. Subgroup Performance

What percentages of public school 8th graders in different subgroups<sup>1</sup> in Minnesota were at or above Proficient on the 1996 NAEP science assessment?



<sup>†</sup> The term "state" is used to refer to the 50 states, the District of Columbia, and the territories.

<sup>1</sup> See explanation on pp. 3-4.

<sup>2</sup> State may appear to be out of place; however, statistically, its placement is correct. See pp. 3-4.

\* Figure shown for the U.S. includes both public and nonpublic school data.

<sup>1</sup> Interpret differences between subgroups with caution. See pp. 3-4 and Appendix D.

<sup>2</sup> Characteristics of the sample do not permit a reliable estimate.

\*\* No school location data for science in 1996.

## Mathematics Grade 8

Forty-one nations<sup>†</sup> participated in the Third International Mathematics and Science Study (TIMSS) in 8th grade mathematics in 1995. Students in Minnesota took the same test so that their results could be compared directly to the results of students in other countries. How did public school 8th graders in Minnesota compare to students in the other participating countries?

### 6 nations<sup>†</sup> performed significantly higher:<sup>1</sup>

Belgium – Flemish <sup>2</sup>	Japan
Czech Republic	Korea
Hong Kong	Singapore

### 19 nations<sup>†</sup> performed similarly:<sup>1</sup>

(Australia)	(Israel)
(Austria)	<b>Minnesota</b>
(Belgium – French) <sup>2</sup>	(Netherlands)
(Bulgaria)	New Zealand
Canada	Russian Federation
(England)	Slovak Republic
France	(Slovenia)
(Germany)	Sweden
Hungary	(Switzerland)
Ireland	(Thailand)

### 16 nations<sup>†</sup> performed significantly lower:<sup>1</sup>

(Colombia)	(Lithuania)
Cyprus	Norway
(Denmark)	Portugal
(Greece)	(Romania)
Iceland	(Scotland)
Iran, Islamic Republic	(South Africa)
(Kuwait)	Spain
(Latvia – LSS) <sup>3</sup>	<b>United States</b>

<sup>†</sup> The term "nation" is used to refer to nations, states, or jurisdictions. Performance for nations is based on public school data only. Nations not meeting international guidelines are shown in parentheses.

<sup>1</sup> See explanation on pp. 3-4.

<sup>2</sup> The Flemish and French educational systems in Belgium participated separately.

<sup>3</sup> Latvia is designated LSS because only Latvian-speaking schools were tested, which represent less than 65% of the population.

## Science Grade 8

Forty-one nations<sup>†</sup> participated in the Third International Mathematics and Science Study (TIMSS) in 8th grade science in 1995. Students in Minnesota took the same test so that their results could be compared directly to the results of students in other countries. How did public school 8th graders in Minnesota compare to students in the other participating countries?

### 1 nation<sup>†</sup> performed significantly higher:<sup>1</sup>

Singapore

### 12 nations<sup>†</sup> performed similarly:<sup>1</sup>

(Australia)	Japan
(Austria)	Korea
Belgium – Flemish <sup>2</sup>	<b>Minnesota</b>
(Bulgaria)	(Netherlands)
Czech Republic	Slovak Republic
(England)	(Slovenia)
Hungary	

### 28 nations<sup>†</sup> performed significantly lower:<sup>1</sup>

(Belgium – French) <sup>2</sup>	(Latvia – LSS) <sup>3</sup>
Canada	(Lithuania)
(Colombia)	New Zealand
Cyprus	Norway
(Denmark)	Portugal
France	(Romania)
(Germany)	Russian Federation
(Greece)	(Scotland)
Hong Kong	(South Africa)
Iceland	Spain
Iran, Islamic Republic	Sweden
Ireland	(Switzerland)
(Israel)	(Thailand)
(Kuwait)	<b>United States</b>

<sup>†</sup> The term "nation" is used to refer to nations, states, or jurisdictions. Performance for nations is based on public school data only. Nations not meeting international guidelines are shown in parentheses.

<sup>1</sup> See explanation on pp. 3-4.

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