

ies NATIONAL CENTER FOR
EDUCATION STATISTICS
INSTITUTE OF EDUCATION SCIENCES

The Nations
Nations
Report Card

NAEP 2007 Reading and Mathematics Assessments

**EMBARGOED until
September 25, 2007
10 a.m. E.D.T.
DO NOT CITE**



Mark Schneider
Commissioner, National Center for Education Statistics
September 25, 2007

Overview of the 2007 Reading and Mathematics Assessments

- Given January–March 2007 to
 - 390,000 fourth-graders
 - 310,000 eighth-graders
- Results available for
 - Nation
 - 50 states, the District of Columbia, and Department of Defense school system
- Results reported as
 - Average scale scores
 - Percentage at or above achievement levels



Overall Findings From 2005 to 2007 — Grade 4

- Average reading and mathematics scores increased.
- Higher percentages of students at or above *Basic* and at or above *Proficient* in both subjects.
- Scores up for *White*, *Black*, *Hispanic*, and *Asian/Pacific Islander* students.
- *White* – *Black* score gap narrowed in reading.



Overall Findings From 2005 to 2007 — Grade 8

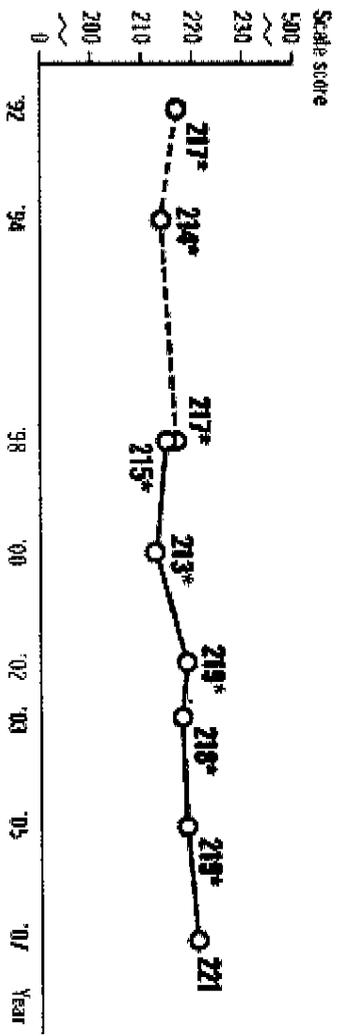
- Average reading and mathematics scores increased.
- Higher percentages of students at or above *Basic* in both subjects.
- Higher percentages of students at or above *Proficient* in mathematics but no change in reading.
- Scores up for *White* and *Black* students in both subjects and up for *Hispanic* students in mathematics.
- *White* — *Black* score gap narrowed in mathematics.

NAEP 2007 Reading Results

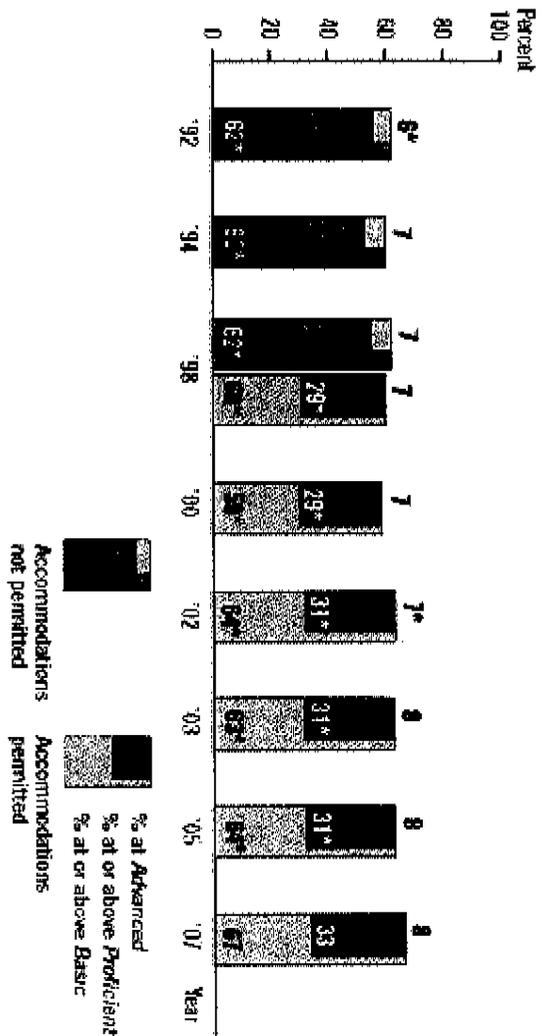


National Results, Grade 4

● Average score in 2007 was 2 points higher than in 2005 and 4 points higher than in 1992.



● Higher percentages performed at or above **Basic** and **Proficient** in 2007 than in any previous assessment.



* Significantly different ($p < .05$) from 2007.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1992-2007 Reading Assessments.

National Results by Race/Ethnicity, Grade 4

- White**
 - Up 2 points from 2005
 - Up 7 points from 1992
- Black**
 - Up 3 points from 2005
 - Up 11 points from 1992
- Hispanic**
 - Up 2 points from 2005
 - Up 8 points from 1992
- Asian/Pacific Islander**
 - Up 3 points from 2005
 - Up 16 points from 1992
- American Indian/Alaska Native**
 - No significant change from 2005

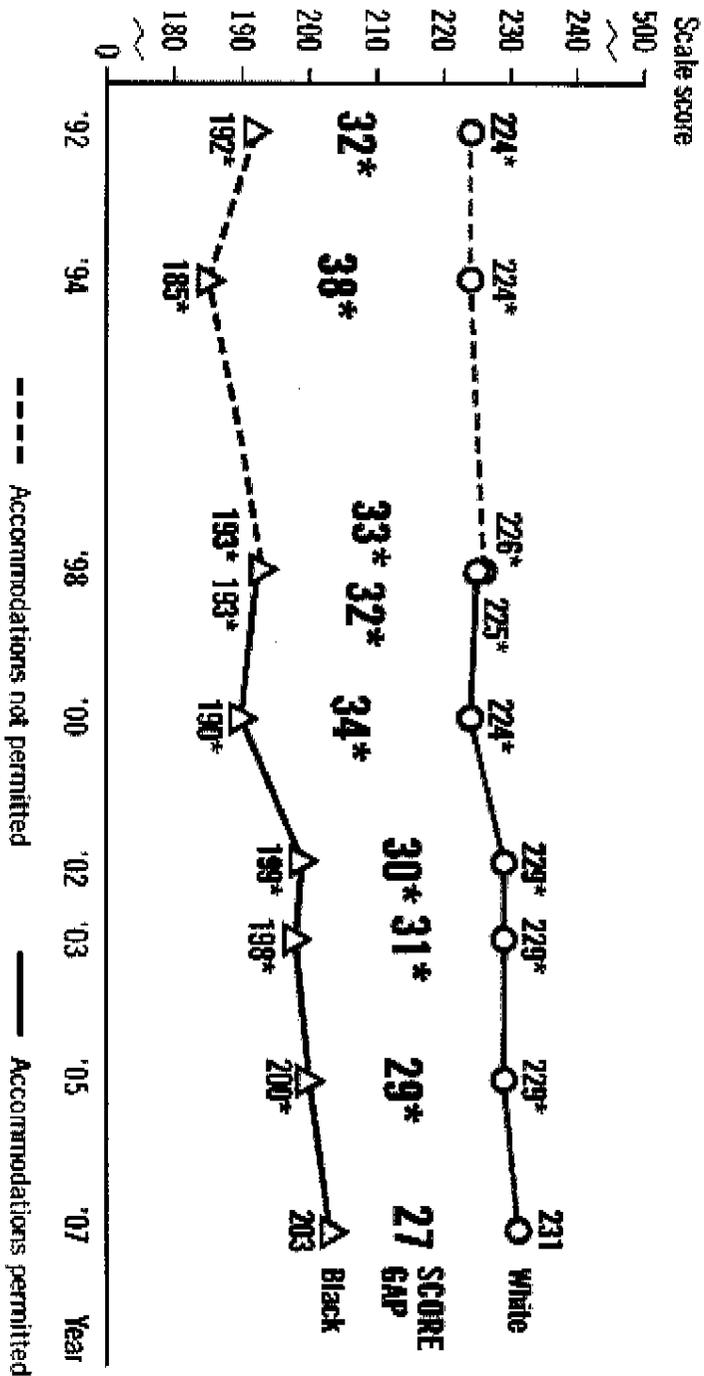
	Grade 4	
	Since 1992	Since 2005
Overall	↑	↑
White	↑	↑
Black	↑	↑
Hispanic	↑	↑
Asian/Pacific Islander	↑	↑
American Indian/Alaska Native	‡	↔

↑ Indicates the score was higher in 2007.
 ↓ Indicates the score was lower in 2007.
 ↔ Indicates there was no significant change in the score in 2007.
 ‡ Reporting standards not met. Sample size was insufficient to permit a reliable estimate.

READING

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1992–2007 Reading Assessments.

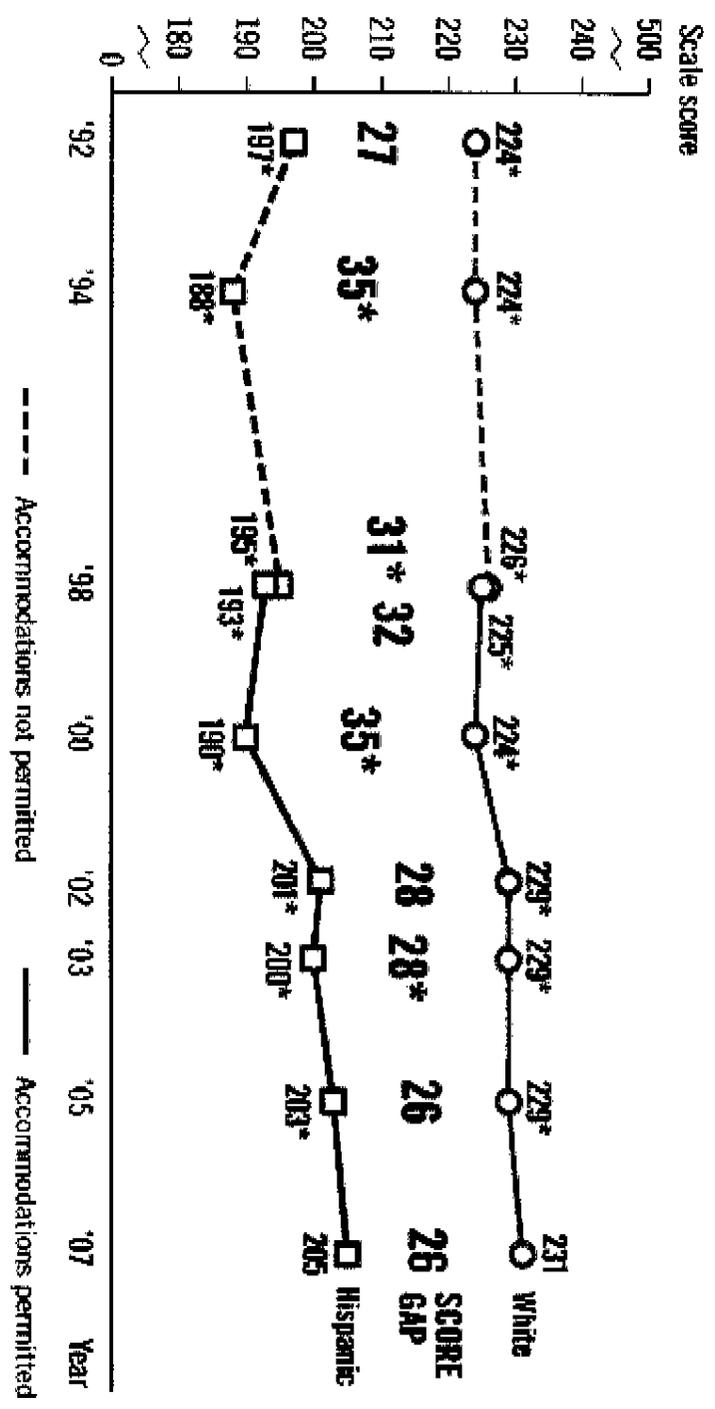
White – Black score gap at grade 4 narrowed in 2007 compared to all previous assessments.



* Significantly different ($p < .05$) from 2007.
 NOTE: Black includes African American. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1992-2007 Reading Assessments.

Reading and Mathematics 2007

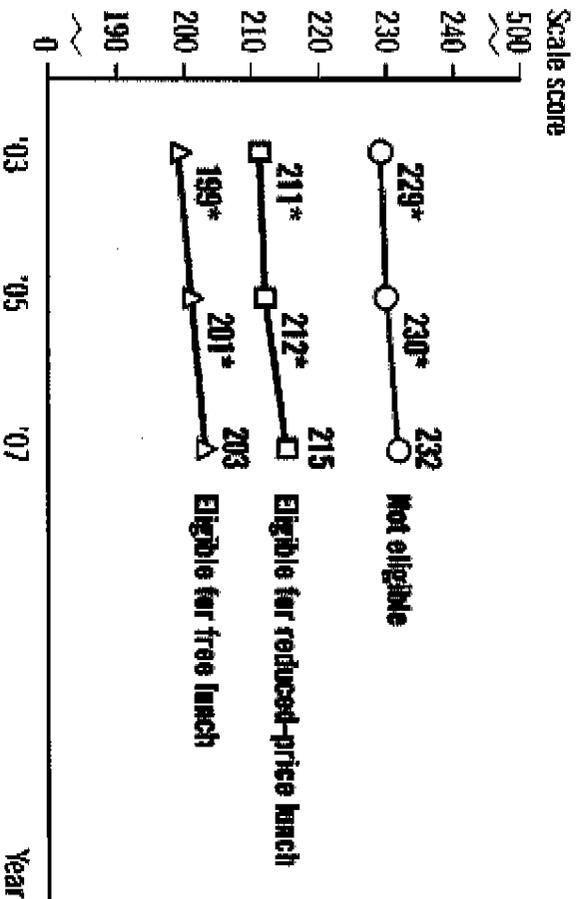
White – Hispanic score gap at grade 4 in 2007 was not significantly different from the gap in either 2005 or 1992.



* Significantly different ($p < .05$) from 2007.
 NOTE: Hispanic includes Latina. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Progress (NAEP), various years, 1992–2007 Reading Assessments.

National Results by Eligibility for National School Lunch Program, Grade 4

- Scores increased from 2005 to 2007 for students across three family income levels.



* Significantly different ($p < .05$) from 2007.

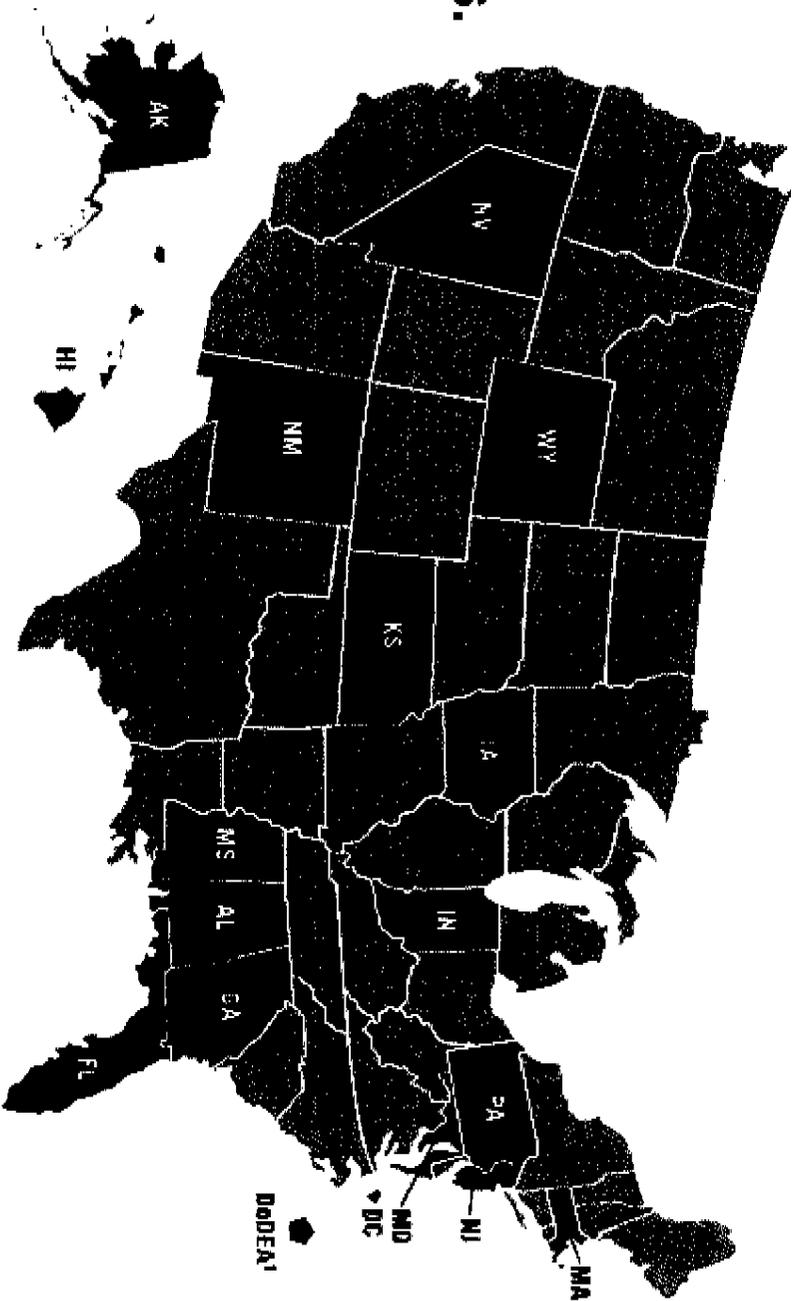
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003, 2005, and 2007 Reading Assessments.

READING



Changes in Average Scores Between 2005 and 2007, Grade 4

Average reading scores increased in 18 states.



■ Significant score increase ■ No significant change

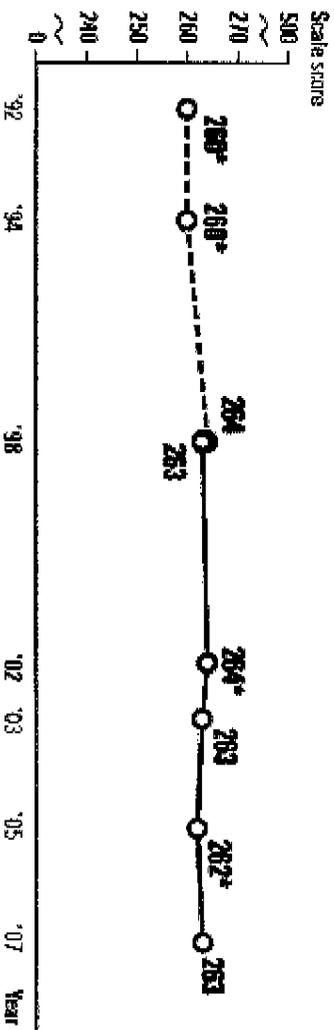
¹ Department of Defense Education Activity (overseas and domestic schools).
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Statistics, National Assessment of Educational Progress (NAEP), 2005 and 2007 Reading Assessments.

READING

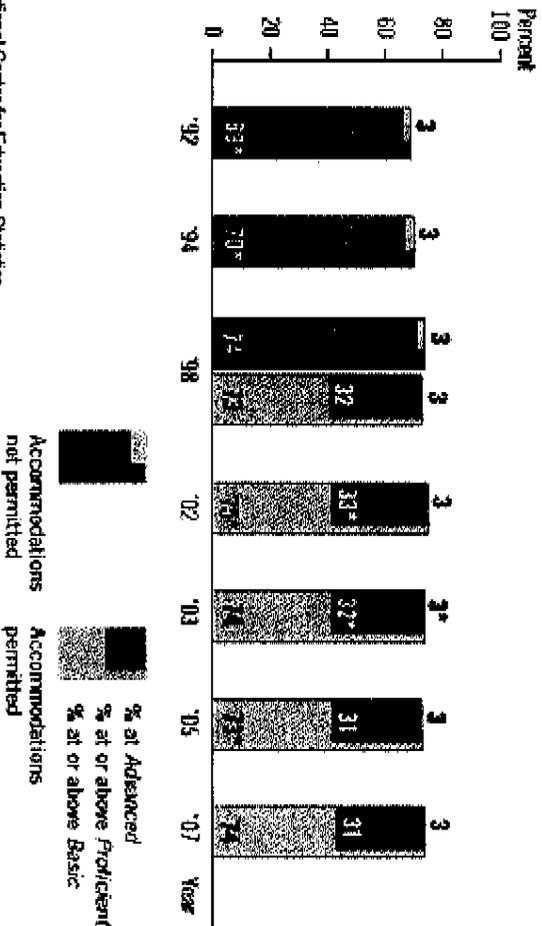
Reading and Mathematics 2007

National Results, Grade 8

● Average score in 2007 was 1 point higher than in 2005 and 3 points higher than in 1992.



● A higher percentage performed at or above Basic in 2007 compared to 2005 and 1992.



* Significantly different ($p < .05$) from 2007.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1992-2007 Reading Assessments.

National Results by Race/Ethnicity, Grade 8

- **White**
 - Up 1 point from 2005
 - Up 5 points from 1992
- **Black**
 - Up 2 points from 2005
 - Up 8 points from 1992
- **Hispanic**
 - No significant change from 2005
 - Up 6 points from 1992
- **Asian/Pacific Islander**
 - No significant change from 2005 or 1992
- **American Indian/Alaska Native**
 - No significant change from 2005

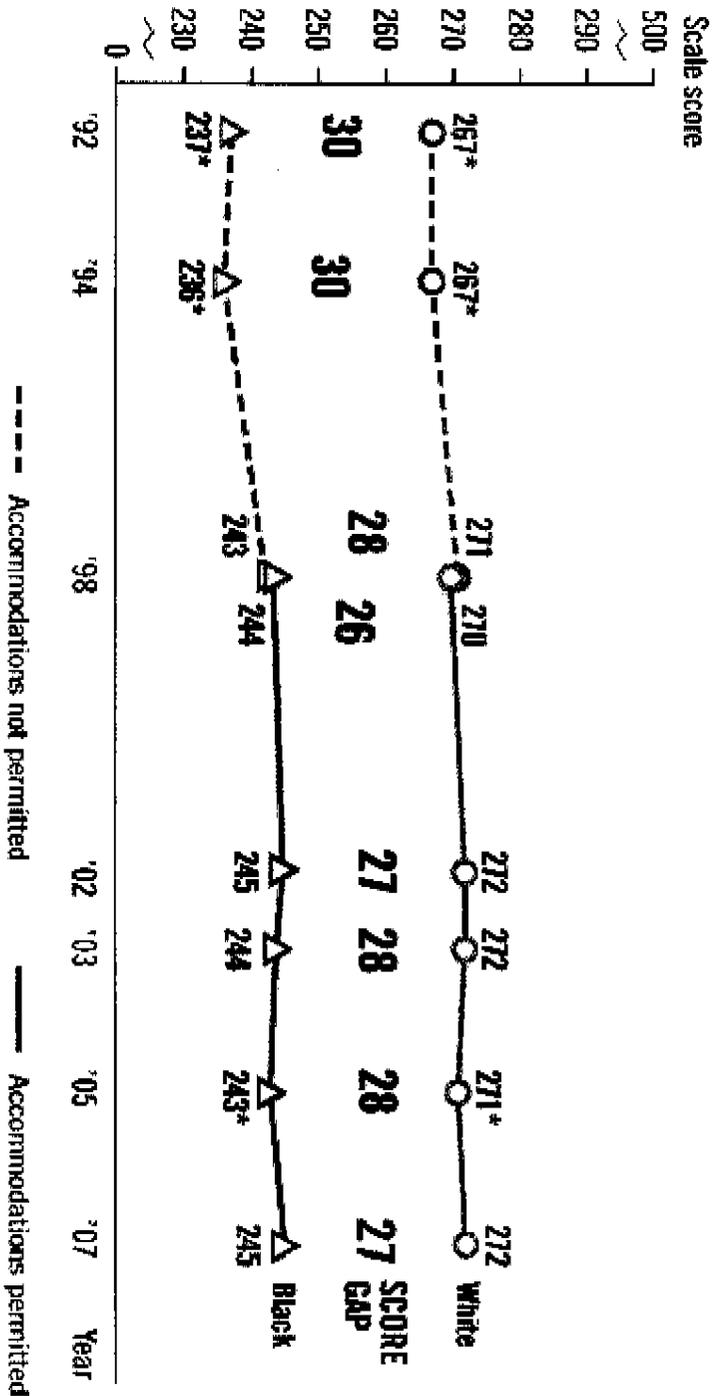
	Grade 8	
	Since 1992	Since 2005
Overall	↑	↑
White	↑	↑
Black	↑	↑
Hispanic	↑	↔
Asian/Pacific Islander	↔	↔
American Indian/Alaska Native	‡	↔

↑ Indicates the score was higher in 2007.
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 ‡ Reporting standards not met. Sample size was insufficient to permit a reliable estimate.

READING

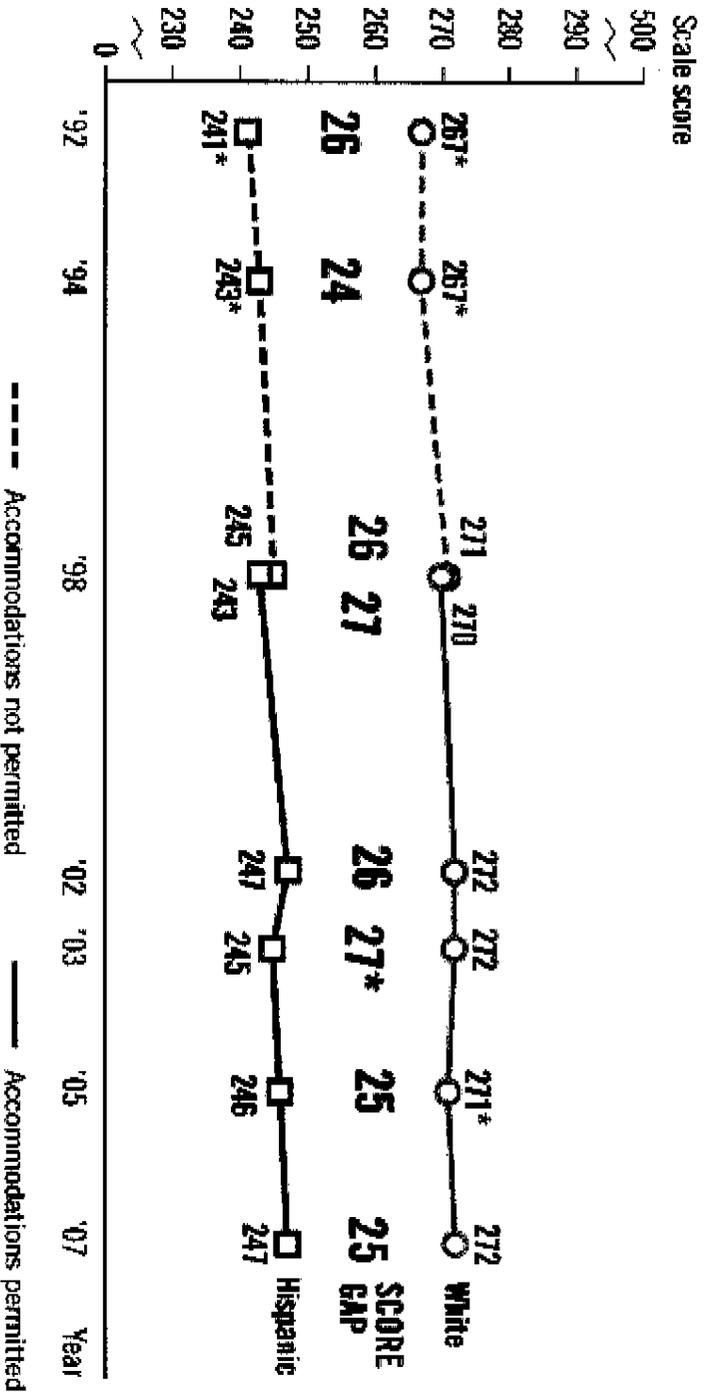
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1992-2007 Reading Assessments.

White – Black score gap at grade 8 in 2007 showed no significant change from either 2005 or 1992.



* Significantly different ($p < .05$) from 2007.
 NOTE: Black includes African American. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Statistics, National Assessment of Educational Progress (NAEP), various years, 1992-2007 Reading Assessments.

White – Hispanic score gap at grade 8 in 2007 showed no significant change from either 2005 or 1992.



* Significantly different ($p < .05$) from 2007.

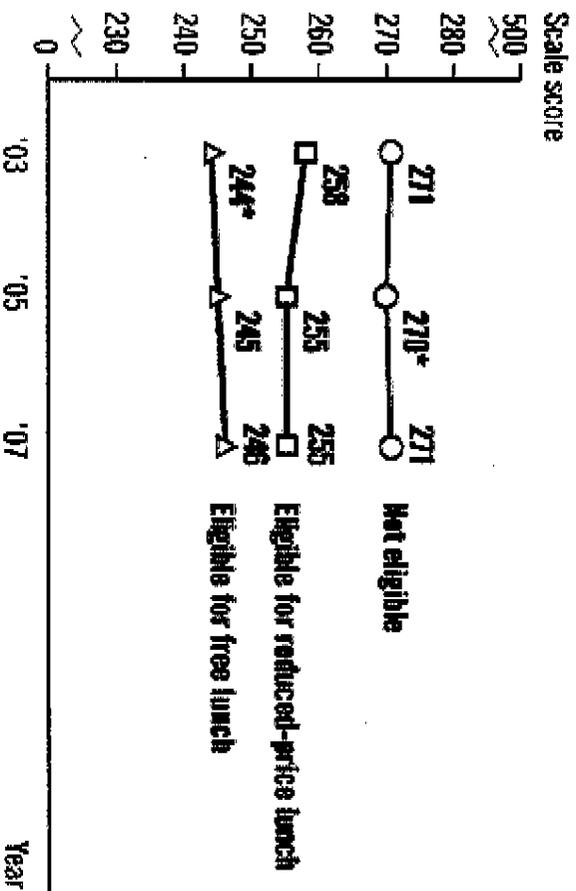
NOTE: Hispanic includes Latino. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Statistics, National Assessment of Educational Progress (NAEP), various years, 1992–2007 Reading Assessments

R E A D I N G

National Results by Eligibility for National School Lunch Program, Grade 8

- There were no significant score changes for lower-income students from 2005 to 2007.



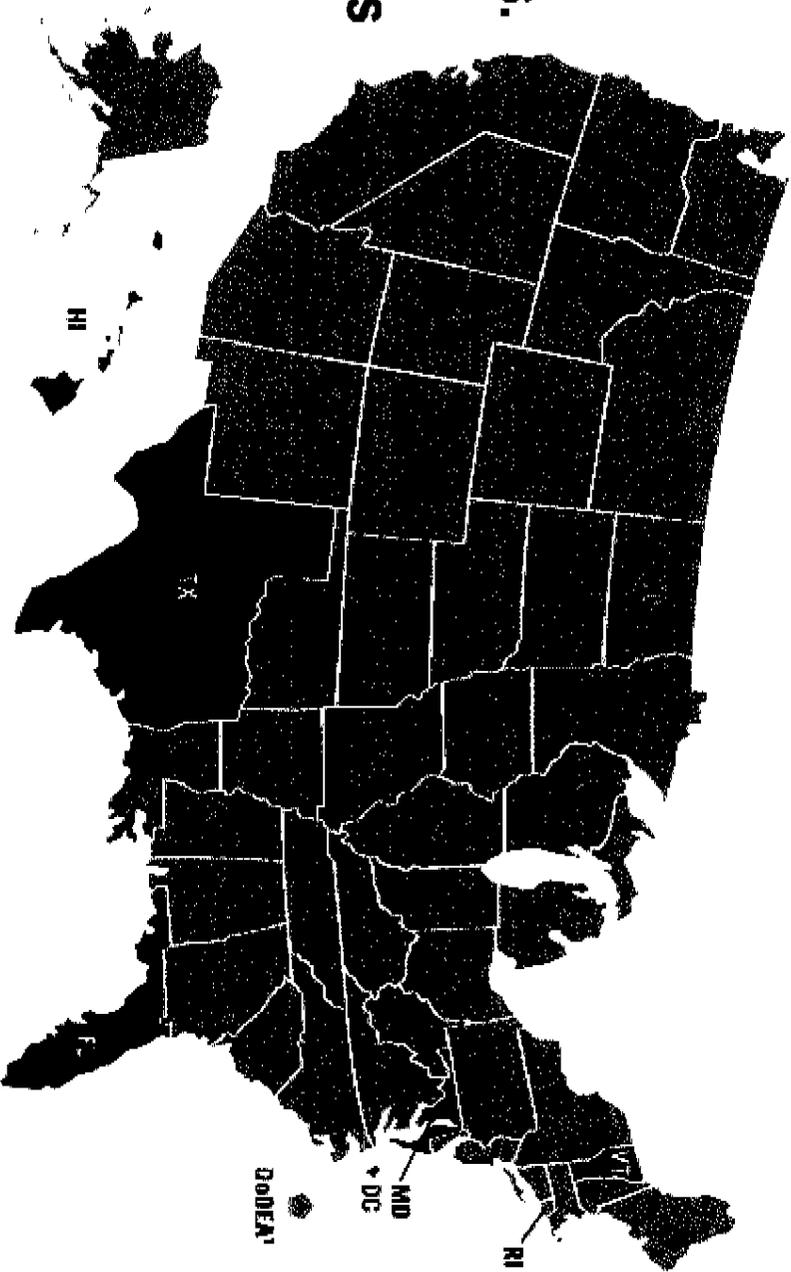
* Significantly different ($p < .05$) from 2007.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003, 2005, and 2007 Reading Assessments.

R E A D I N G

Changes in Average Scores Between 2005 and 2007, Grade 8

- Average reading scores increased in 6 states.
- Two states showed declines.



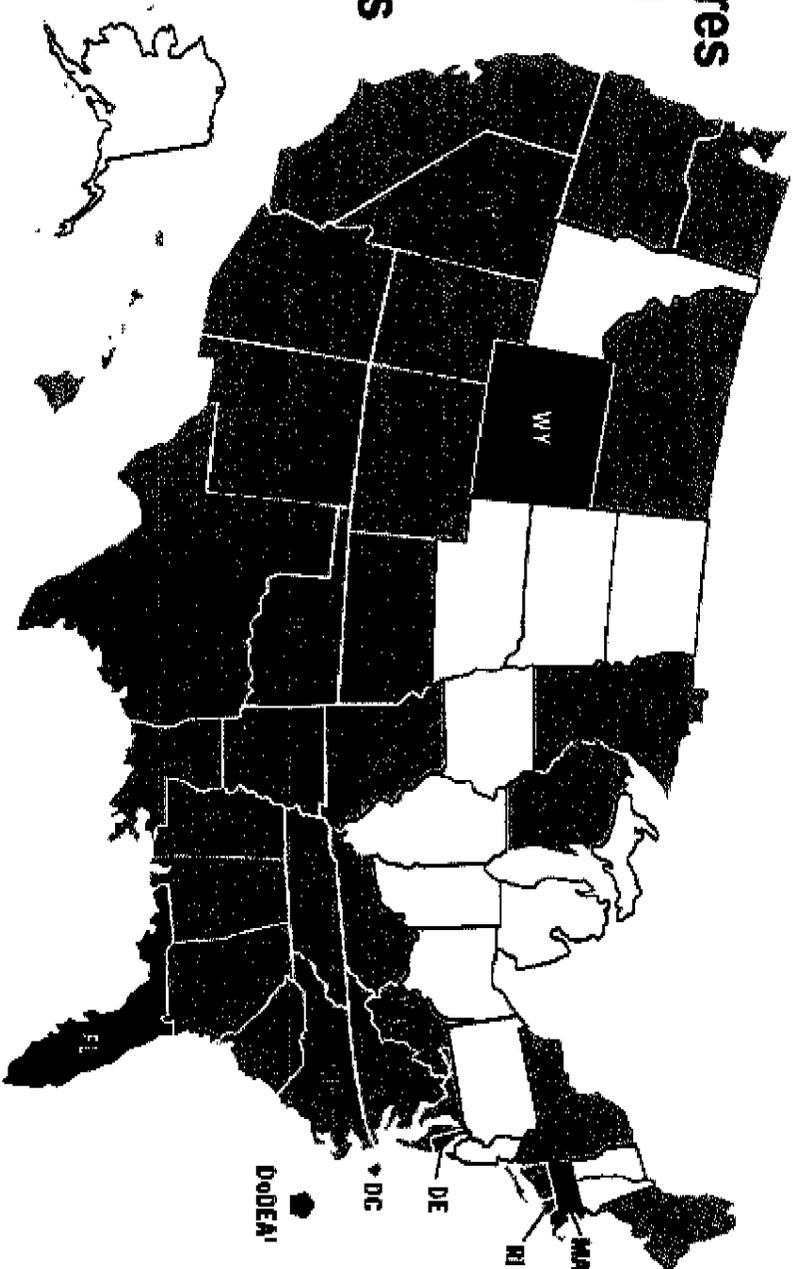
Significant score increase
 Significant score decrease
 No significant change

¹ Department of Defense Education Activity (overseas and domestic schools).
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2005 and 2007 Reading Assessments.

Changes in Average Scores Between 1998 and 2007, Grade 8

● Average reading scores increased in 6 out of 38 states.

● Seven states showed declines.



Significant score increase
 Significant score decrease
 No significant change
 Did not participate in 1998

¹ Department of Defense Education Activity (overseas and domestic schools).
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2007 Reading Assessments.

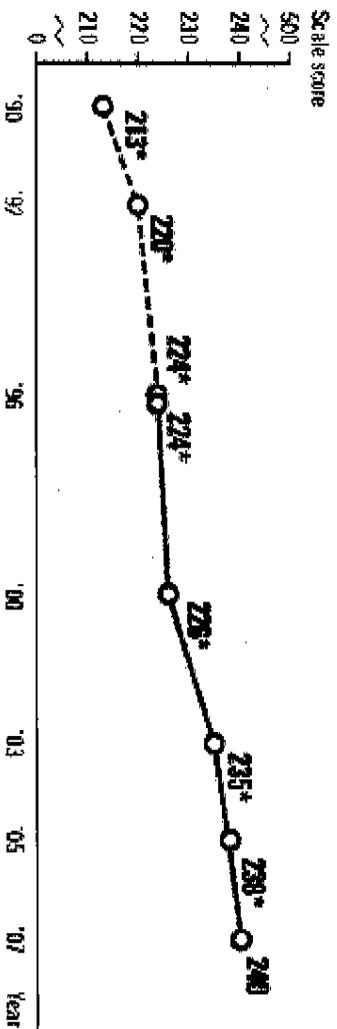
NAEP 2007 Mathematics Results

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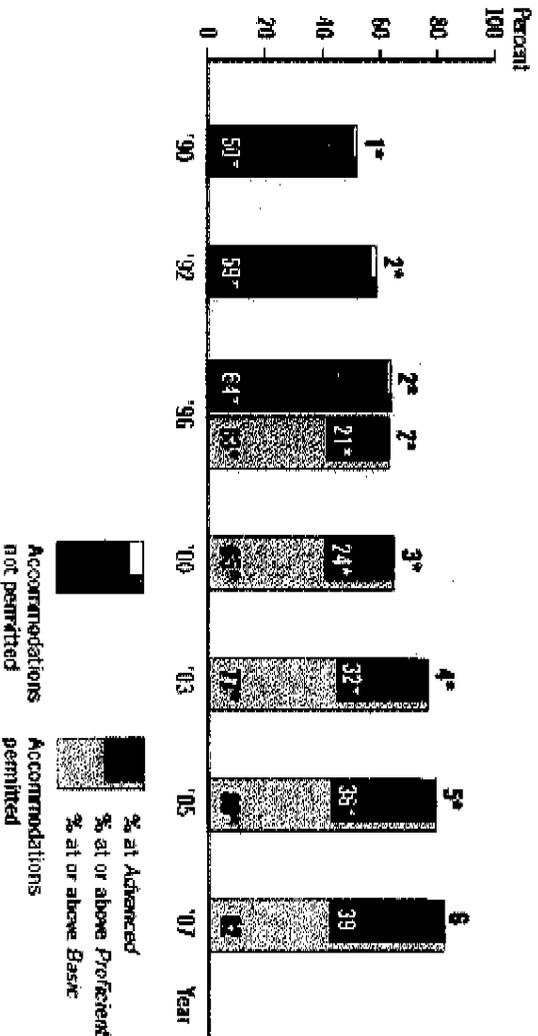


National Results, Grade 4

- Average score in 2007 was 2 points higher than in 2005 and 27 points higher than in 1990.



- Higher percentages performed at or above *Basic*, at or above *Proficient*, and at *Advanced* in 2007 compared to all previous assessments.



* Significantly different ($p < .05$) from 2007.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2007 Mathematics Assessments.

National Results by Race/Ethnicity, Grade 4

- **White**
 - Up 2 points from 2005
 - Up 28 points from 1990
- **Black**
 - Up 2 points from 2005
 - Up 34 points from 1990
- **Hispanic**
 - Up 1 point from 2005
 - Up 27 points from 1990
- **Asian/Pacific Islander**
 - Up 2 points from 2005
 - Up 28 points from 1990
- **American Indian/Alaska Native**
 - No significant change from 2005

	Grade 4 Since 1990	Grade 4 Since 2005
Overall	↑	↑
White	↑	↑
Black	↑	↑
Hispanic	↑	↑
Asian/Pacific Islander	↑	↑
American Indian/Alaska Native	‡	↔

↑ Indicates the score was higher in 2007.

↓ Indicates the score was lower in 2007.

↔ Indicates there was no significant change in the score in 2007.

‡ Reporting standards not met. Sample size was insufficient to permit a reliable estimate.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2007 Mathematics Assessments

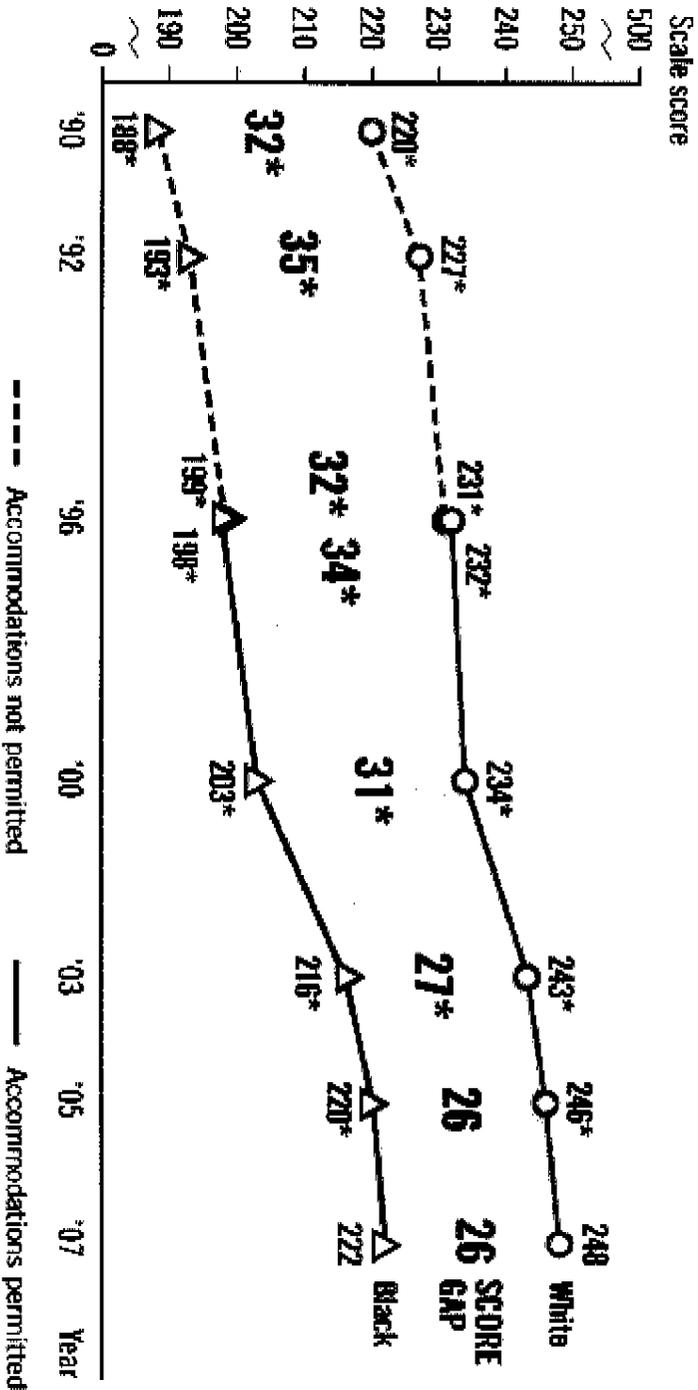
MATHEMATICS



Reading and Mathematics 2007

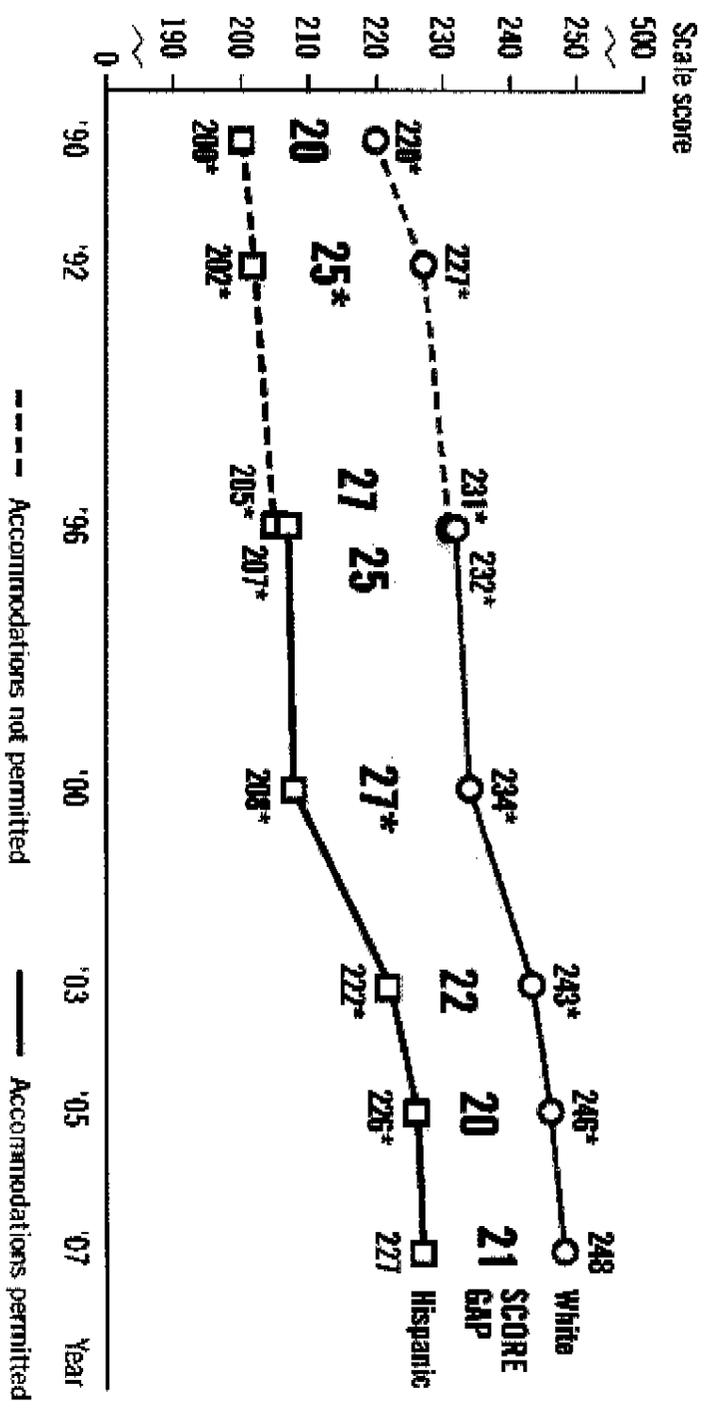


White – Black score gap at grade 4 in 2007 was not different from the gap in 1990 but was smaller than the gap in 1990.



* Significantly different ($p < .05$) from 2007.
 NOTE: Black includes African American. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2007 Mathematics Assessments.

White – Hispanic score gap at grade 4 in 2007 was not significantly different from the gaps in either 2005 or 1990.

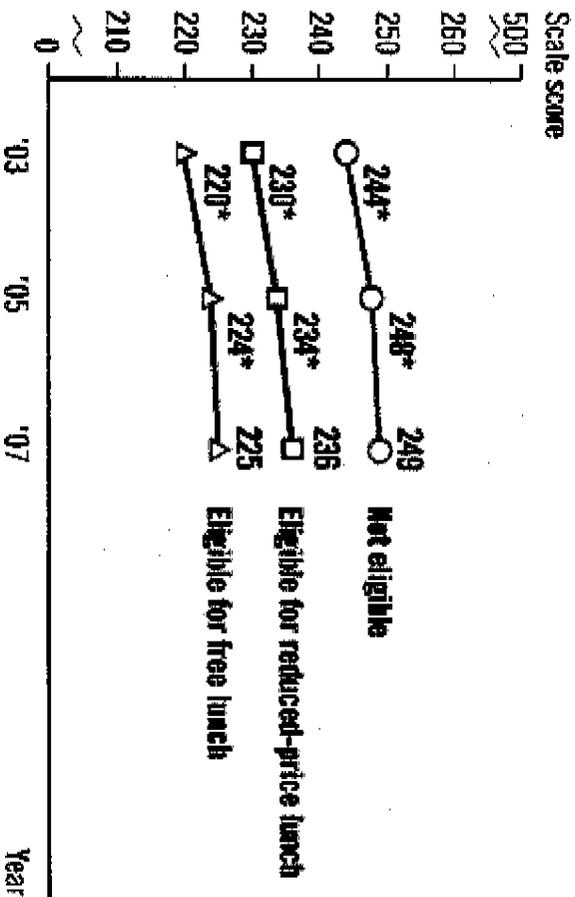


* Significantly different ($p < .05$) from 2007.
 NOTE: Hispanic includes Latino. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2007 Mathematics Assessments.

MATHEMATICS

National Results by Eligibility for National School Lunch Program, Grade 4

- Scores increased from 2005 to 2007 for students across three family income levels.



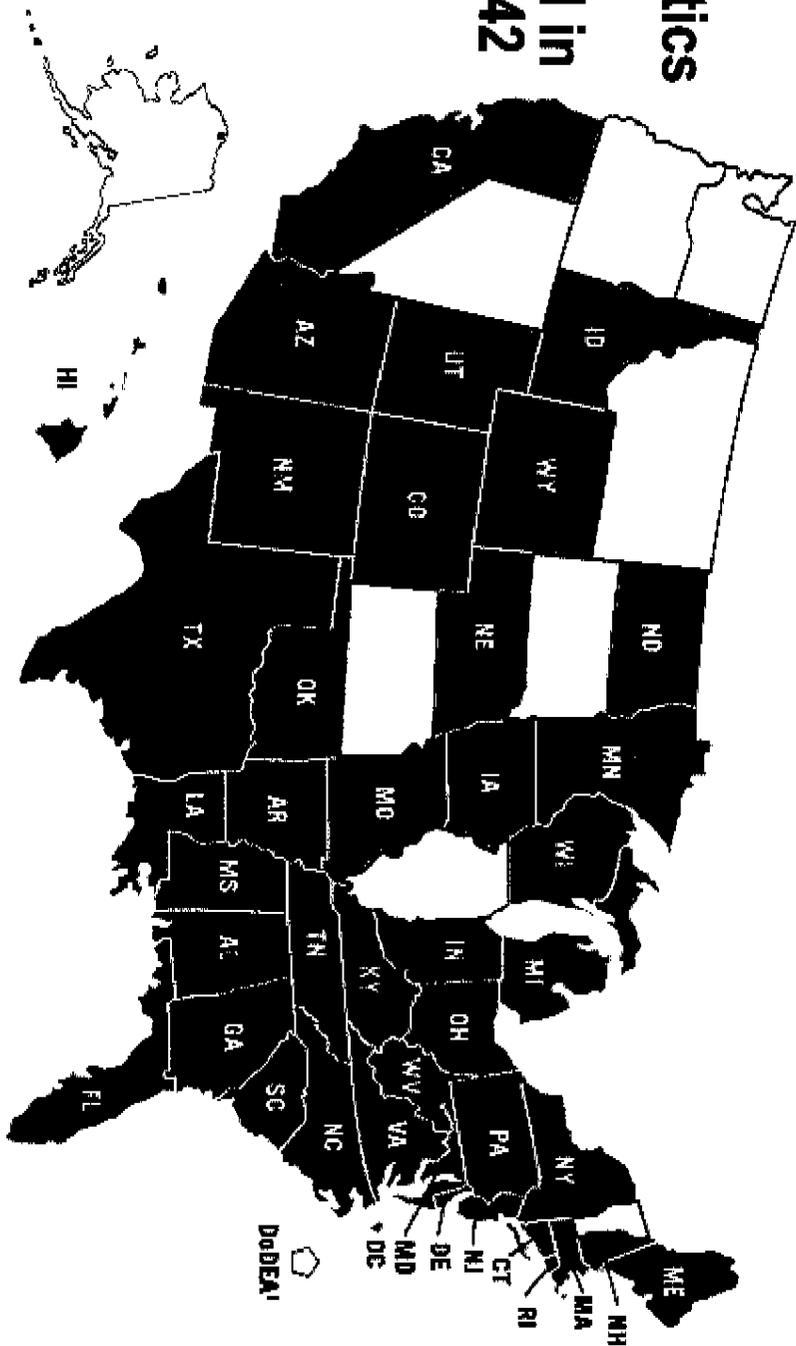
* Significantly different ($p < .05$) from 2007.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003, 2005, and 2007 Mathematics Assessments.

MATHEMATICS



Changes in Average Scores Between 1992 and 2007, Grade 4

Average mathematics scores increased in 42 out of 42 states.

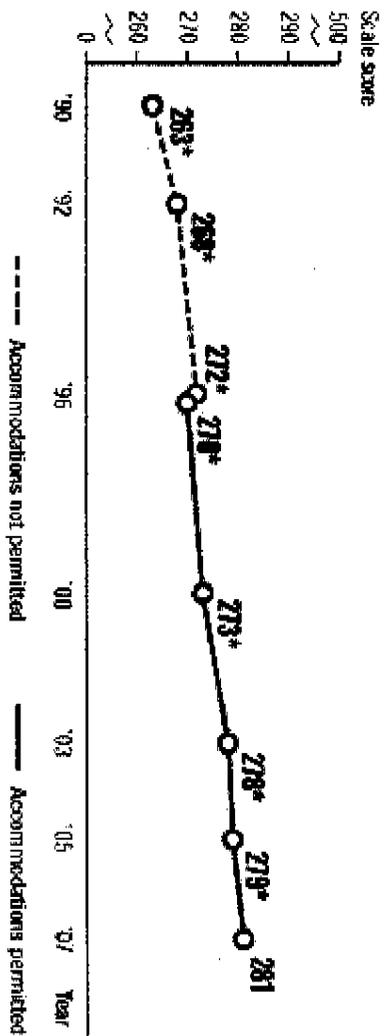


¹Department of Defense Education Activity (overseas and domestic schools).
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992 and 2007 Mathematics Assessments.

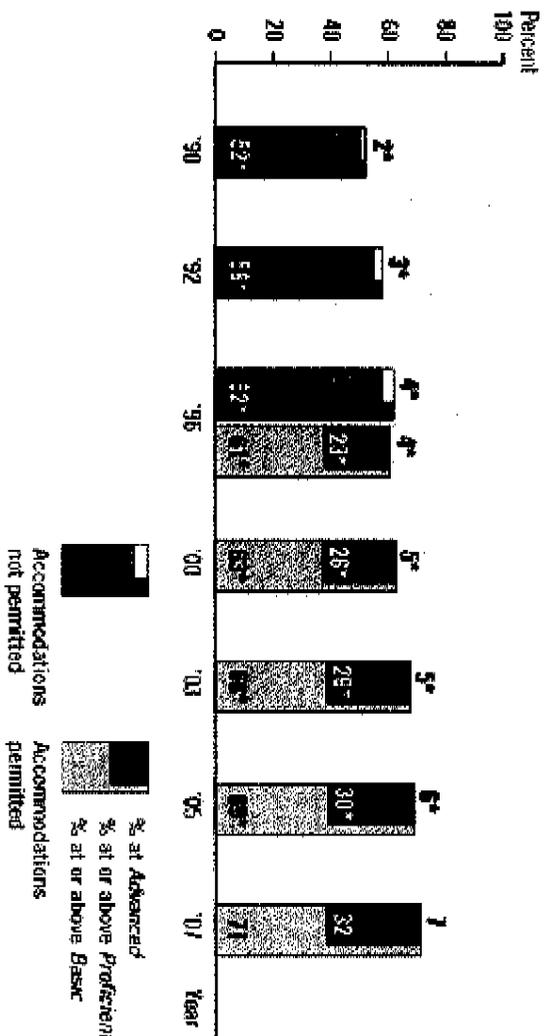
MATHEMATICS

National Results, Grade 8

● Average score in 2007 was 2 points higher than in 2005 and 18 points higher than in 1990.



● Higher percentages performed at or above *Basic*, at or above *Proficient*, and at *Advanced* in 2007 compared to all previous assessments.



* Significantly different ($p < .05$) from 2007.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2007 Mathematics Assessments.

MATHEMATICS

National Results by Race/Ethnicity, Grade 8

- **White**

 - Up 2 points from 2005
 - Up 21 points from 1990
- **Black**

 - Up 5 points from 2005
 - Up 23 points from 1990
- **Hispanic**

 - Up 3 points from 2005
 - Up 19 points from 1990
- **Asian/Pacific Islander**

 - No significant change from 2005
 - Up 22 points from 1990
- **American Indian/Alaska Native**

 - No significant change from 2005

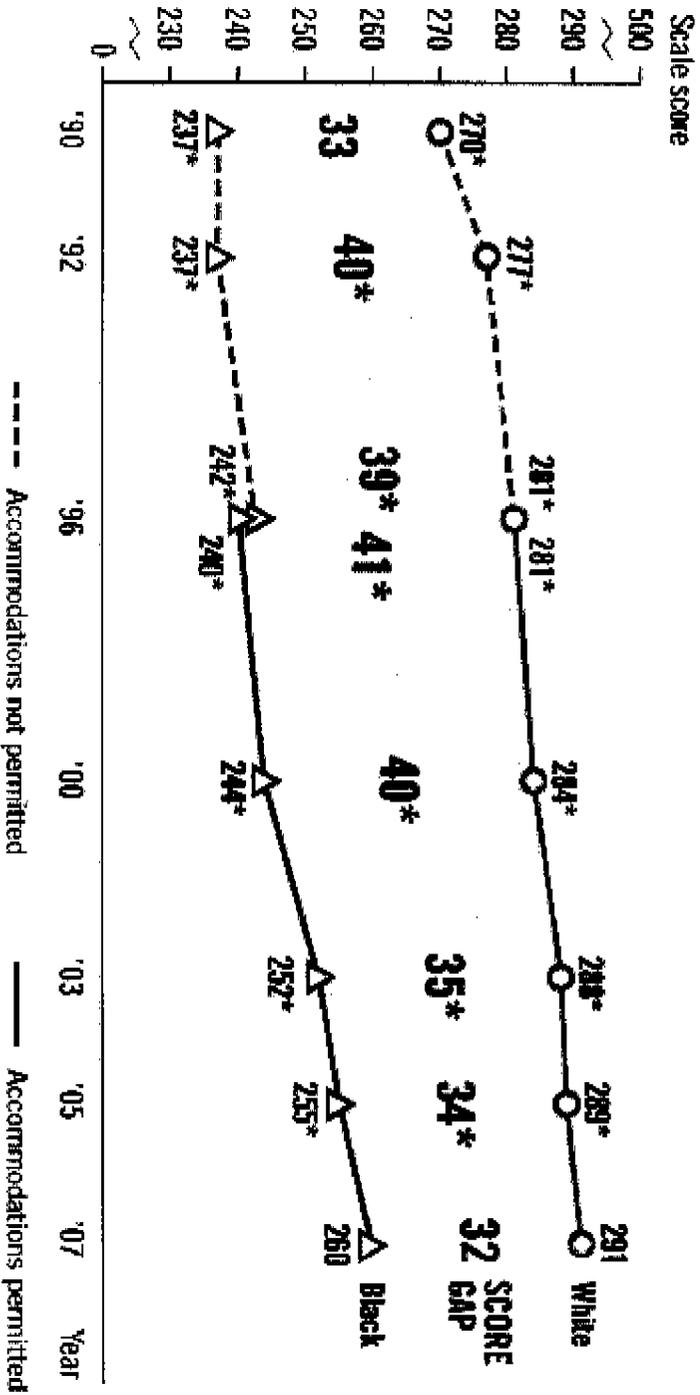
	Grade 8	
	Since 1990	Since 2005
Overall	↑	↑
White	↑	↑
Black	↑	↑
Hispanic	↑	↑
Asian/Pacific Islander	↑	↔
American Indian/Alaska Native	‡	↔

↑ Indicates the score was higher in 2007.
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 ‡ Reporting standards not met. Sample size was insufficient to permit a reliable estimate.

M A T H E M A T I C S

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), various years, 1990–2007 Mathematics Assessments.

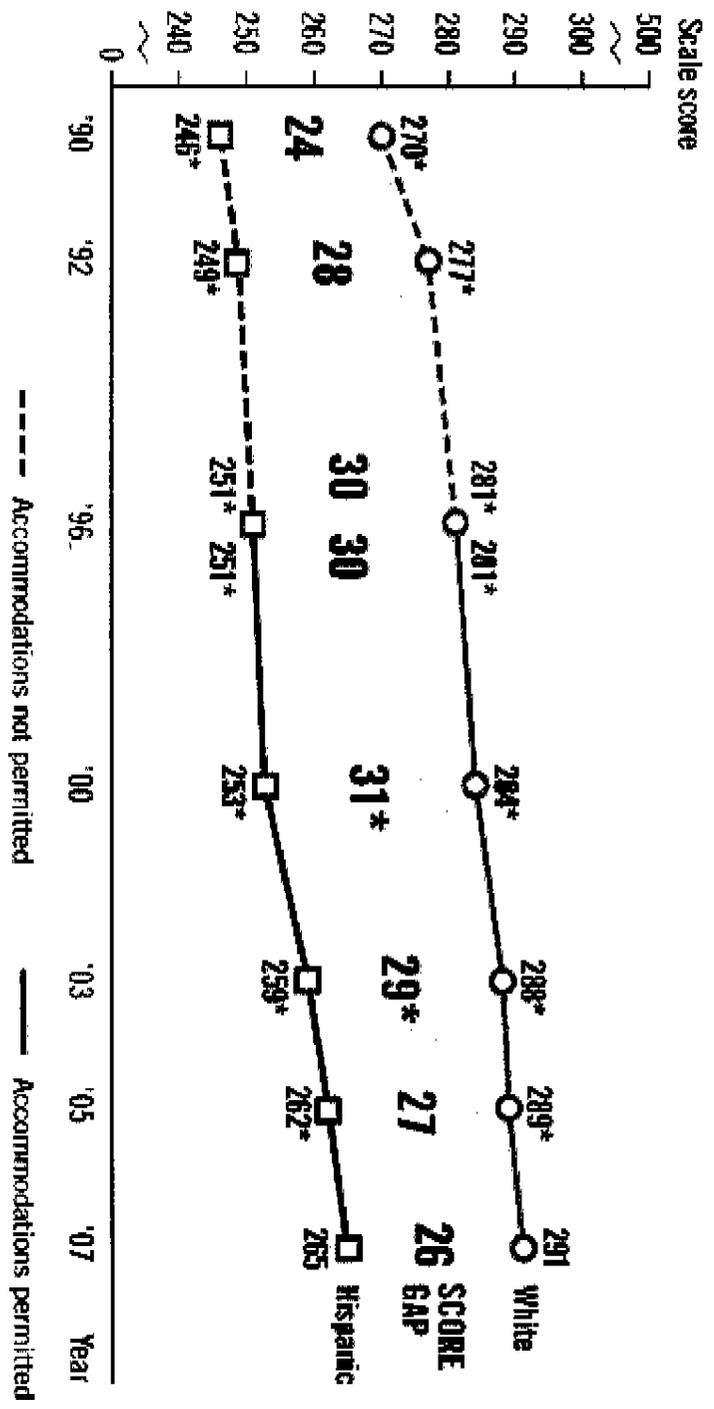
White – Black score gap at grade 8 in 2007 was smaller than the gap in 2005 but was not significantly different from the gap in 1990.



* Significantly different ($p < .05$) from 2007
NOTE: Black includes African American. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Statistics, National Assessment of Educational Progress (NAEP), various years, 1990-2007 Mathematics Assessments.

MATHEMATICS

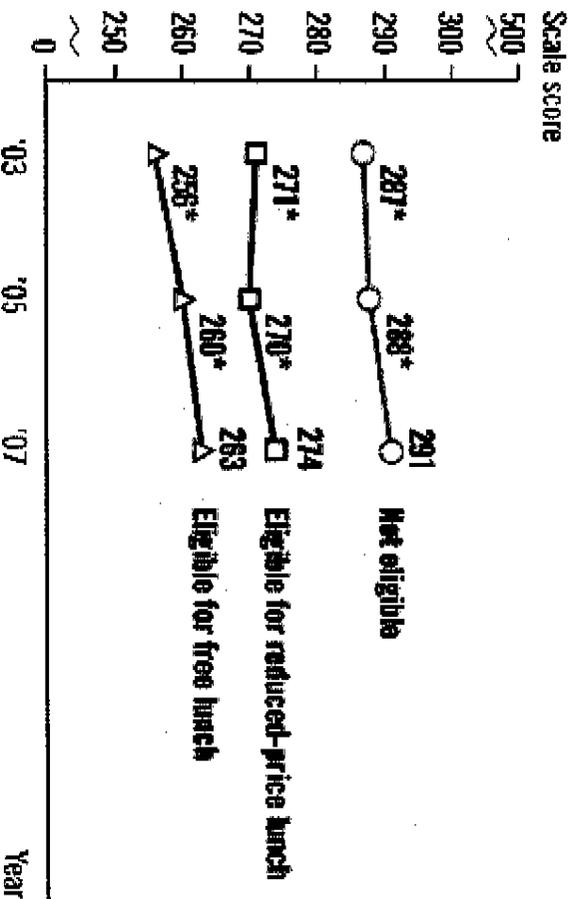
White – Hispanic score gap at grade 8 in 2007 was not significantly different from the gap in either 2005 or 1990.



* Significantly different ($p < .05$) from 2007.
 NOTE: Hispanic includes Latino. Race categories exclude Hispanic origin. Score gaps are calculated based on differences between unrounded average scores.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Assessment of Educational Progress (NAEP), various years, 1990-2007 Mathematics Assessments.

National Results by Eligibility for National School Lunch Program, Grade 8

- Scores increased from 2005 to 2007 for students across three family income levels.



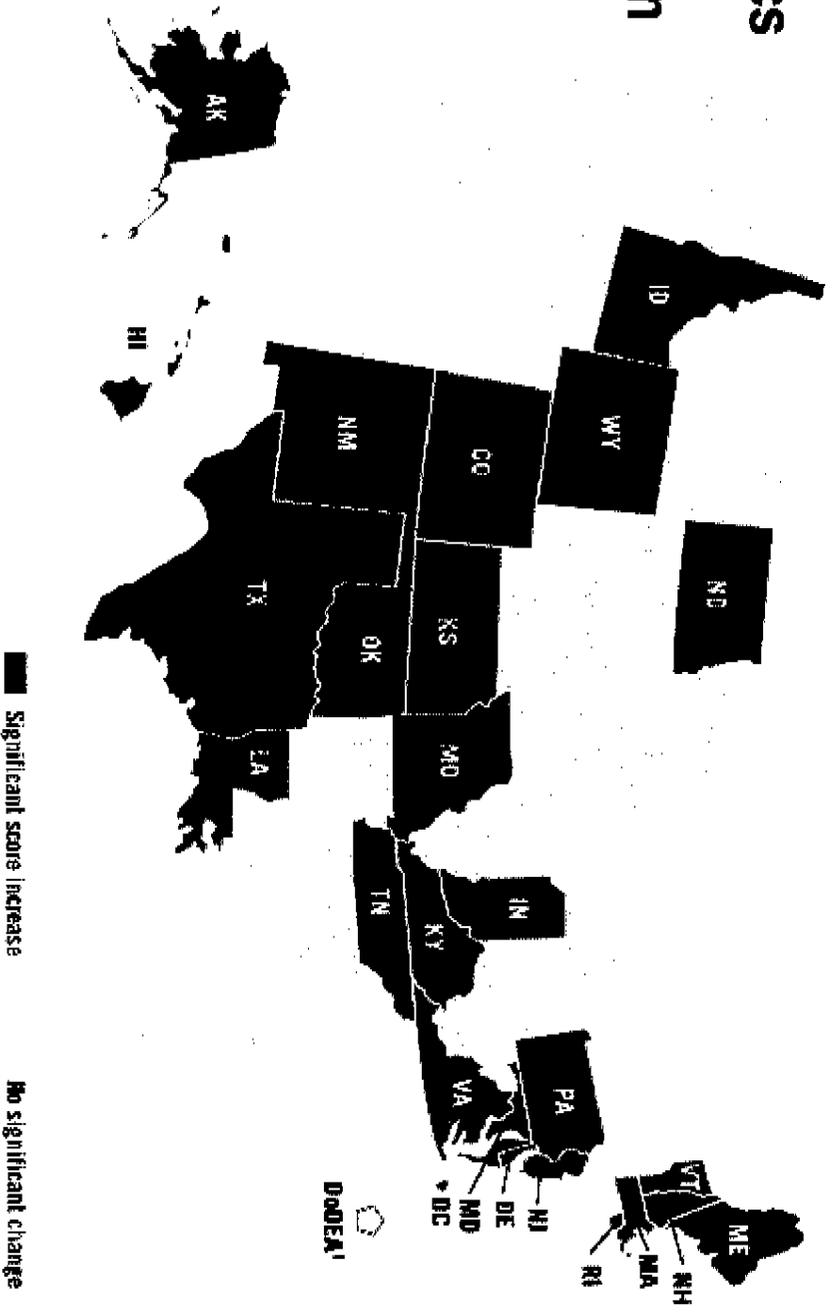
* Significantly different ($p < .05$) from 2007.
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2003, 2005, and 2007 Mathematics Assessments.

MATHEMATICS



Changes in Average Scores Between 2005 and 2007, Grade 8

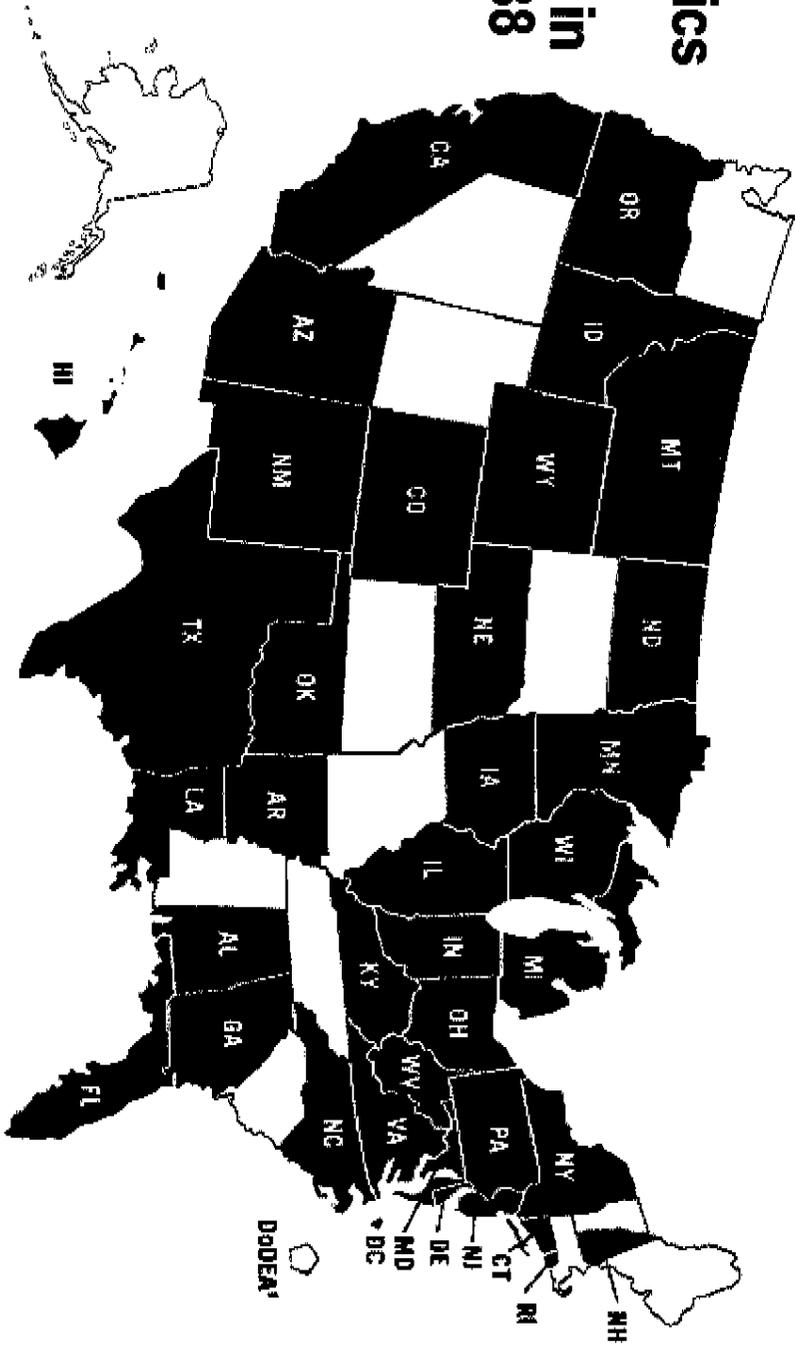
o Average mathematics scores increased in 26 states.



¹ Department of Defense Education Activity (overseas and domestic schools).
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Statistics, National Assessment of Educational Progress (NAEP), 2005 and 2007 Mathematics Assessments.

Changes in Average Scores Between 1990 and 2007, Grade 8

● Average mathematics scores increased in 38 out of 38 states.



¹Department of Defense Education Activity (overseas and domestic schools).
 SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Educational Progress (NAEP), 1990 and 2007 Mathematics Assessments.



Reading and Mathematics 2007



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- <http://nationsreportcard.gov>

