

OEAA NAEP Update



Paul Stemmer

Michigan Department of Education

Assessment & Accountability Conference 2009



Nations Report Card has a rich history

- Provides a national perspective on Michigan student performance
- NAEP results are used in Policy and Budgeting decisions at National/State level
- Michigan has participated since 1970's
- Required by Michigan School Code
- Required for Grades 4 and 8 for Title I reimbursement (NCLB)





Large Scale Assessment role expanding

MEAP	SCA	MME	NAEP	TIMMS/ <u>PISA</u>
Mth G3-8 Rdg G3-8 Sci G5,8 SS G6,9	17 Courses Interim End-of- course	ACT, ACT Work Keys Mth suppl Rdg suppl	Mth G4,8,12 Rdg G4,8,12 TUDA HS Transcripts	Mth G4,8 Sci G4-8
State Policy Local Decisions Student Impact	State Policy Local Decisions >Student Impact	State Policy Local Decisions >>Student Impact	Federal Policy State Policy No Individ Scores	Federal and International Policy



Survey sampling accurately reflects state and nations

- NAEP administration uses survey sampling methodology
 - Samples obtained for state (G4,G8) and national scores (G4,8,12)
 - Assessment uses sampling matrix
 - Each student has a different subject and subset of test items in their test booklet
 - Entire assessment process designed for 90 minutes
 - Administered by the contractor: Westat, Inc.



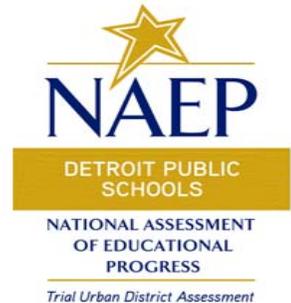
National year measures different subjects

- Assessment Window:
January 25 through March 5
- Grades 4, 8, 12 (National Sample)
 - Civics
 - Geography
 - U.S. History



Math 2009 results coming soon

- State Level Math Results Released in October
- Trial Urban District Assessment Program Math Results Due Out in November





National sample means smaller Michigan sample

- National Sample Year: schools have been notified
 - 34 Michigan Districts
 - 48 Schools
 - N=10,780 students
- Sample schools will receive a detailed information packet in early September
- Pre-assessment visits begin in December.



Local districts are cooperative

- OEAA appreciates your continued support
- Attend the NAEP presentation at this conference for more information and a discussion or results



NAEP and MEAP are different

NAEP	MEAP
Sample of districts	Every student tested, unlimited time, same questions
Matrix Sample, 50% constructed response, Perf. Levels Different	Same core questions, mostly MC, unlimited time, State Perf. Levels
Test Content – National Assessment Framework	GLCE & Benchmarks
Used for Research and National Policy & Funding Issues	Accountability, Local Analysis



Results

Grade 4 State Level Results 1992-2007

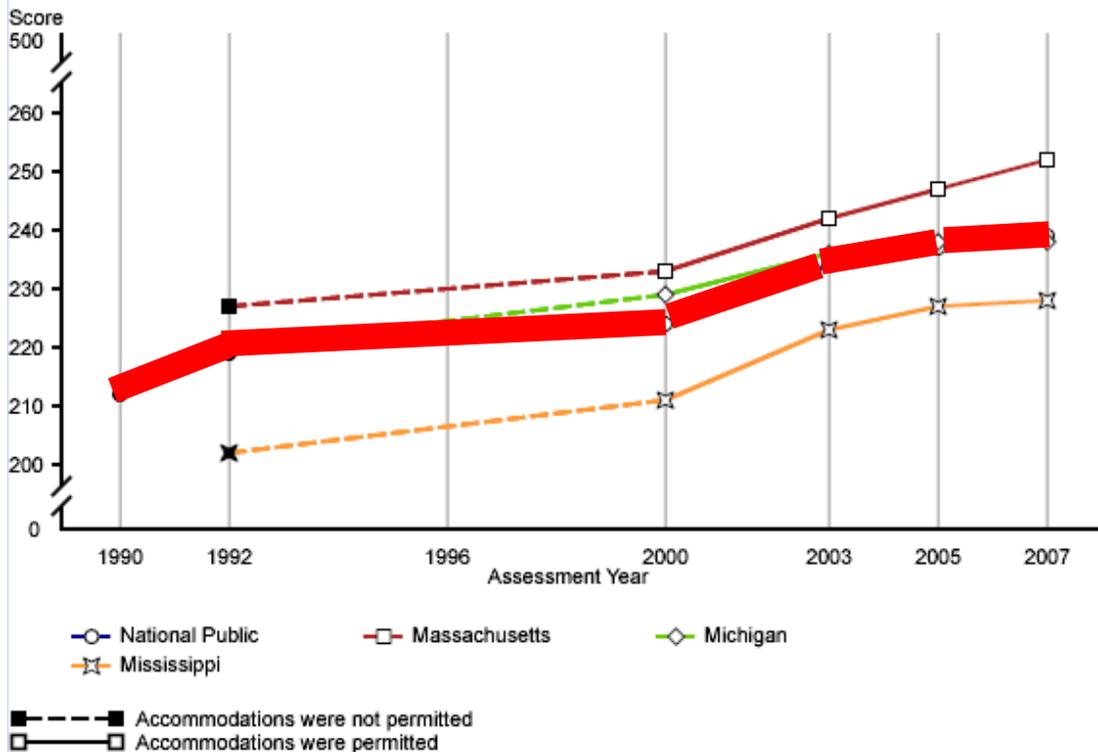


Grade 4 Math shows little growth

Average scale scores for mathematics, grade 4

All students [TOTAL] = All students

By jurisdiction, 1990, 1992, 1996, 2000, 2003, 2005 and 2007



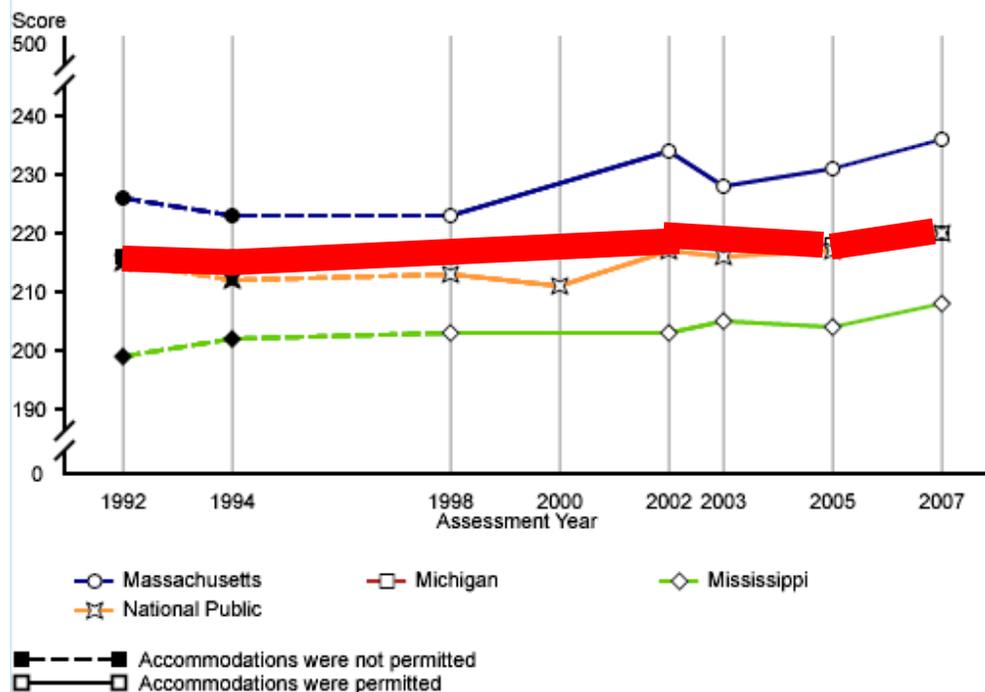
NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1990, 1992, 1996, 2000, 2003, 2005 and 2007 Mathematics Assessments.



G4 Reading shows little growth

Average scale scores for reading, grade 4
All students [TOTAL] = All students
By jurisdiction, 1992, 1994, 1998, 2000, 2002, 2003, 2005 and 2007



NOTE: The NAEP Reading scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, 2000, 2002, 2003, 2005 and 2007 Reading Assessments.

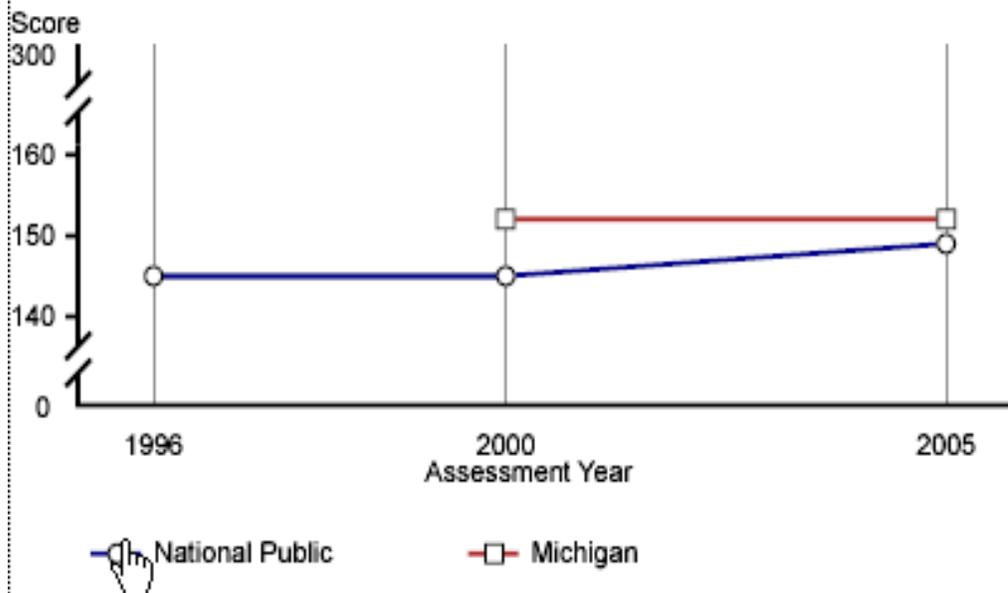


G4 Science shows no growth

Average scale scores for science, grade 4

All students [TOTAL] = All students

By jurisdiction, 1996, 2000 and 2005



NOTE: The NAEP Science scale ranges from 0 to 300. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1996, 2000 and 2005 Science Assessments.



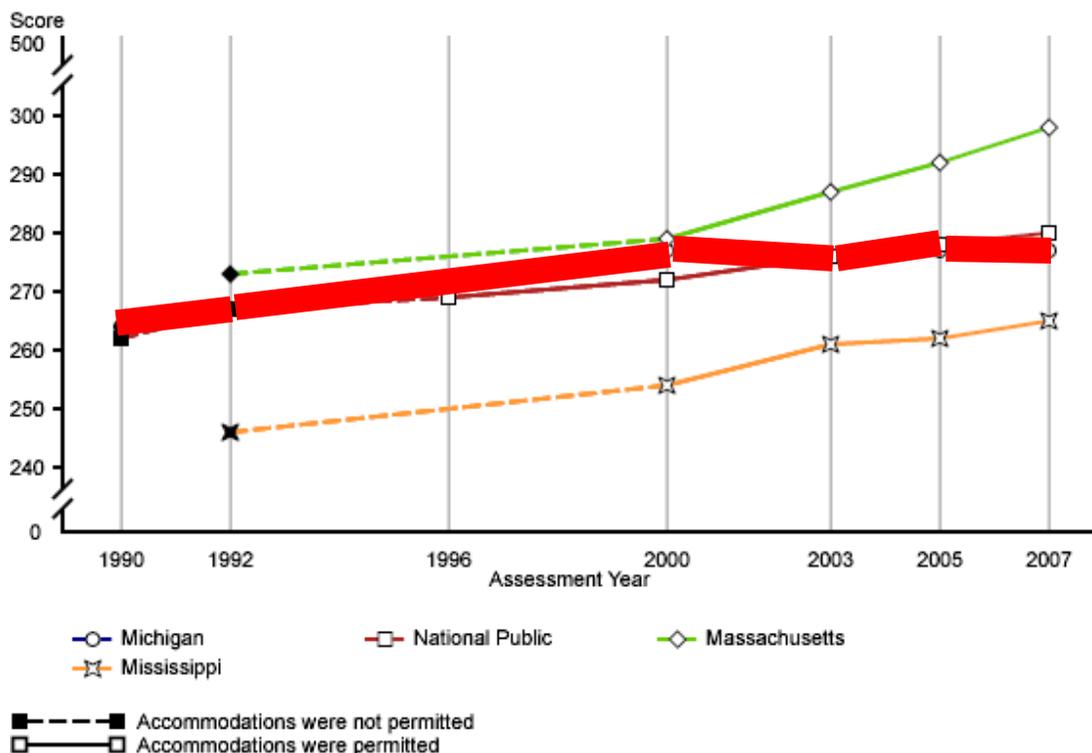
Results

Grade 8 State Level Results 1992-2007



G8 Math scores decline

Average scale scores for mathematics, grade 8
All students [TOTAL] = All students
By jurisdiction, 1990, 1992, 1996, 2000, 2003, 2005 and 2007

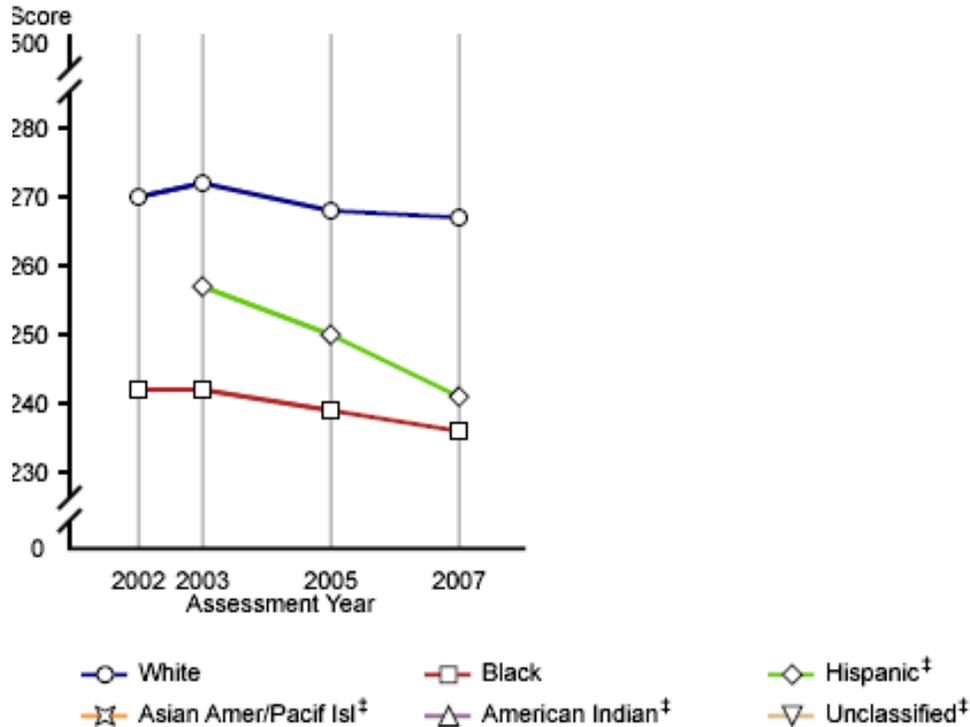


NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1990, 1992, 1996, 2000, 2003, 2005 and 2007 Mathematics Assessments.



G8 demographic gaps widening

Average scale scores for reading, grade 8
Race/ethnicity used in NAEP reports after 2001 [SDRACE]
Michigan, 2002, 2003, 2005 and 2007



[‡] Reporting standards not met.

NOTE: The NAEP Reading scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2002, 2003, 2005 and 2007 Reading Assessments.

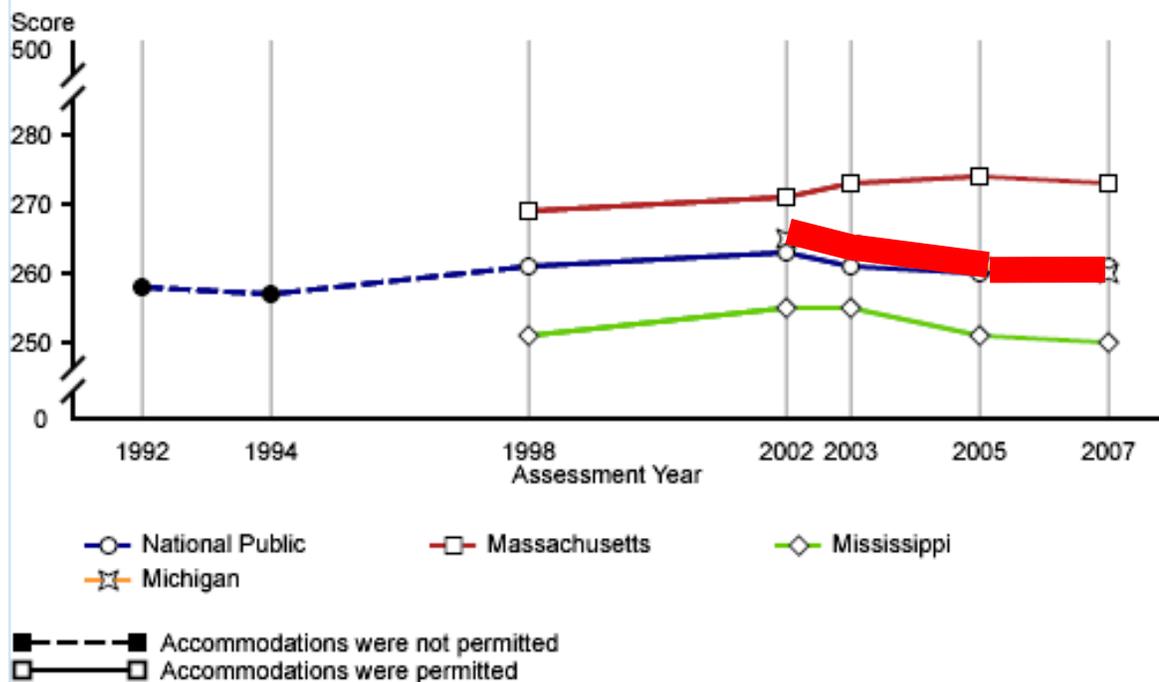


G8 Reading declining

Average scale scores for reading, grade 8

All students [TOTAL] = All students

By jurisdiction, 1992, 1994, 1998, 2002, 2003, 2005 and 2007



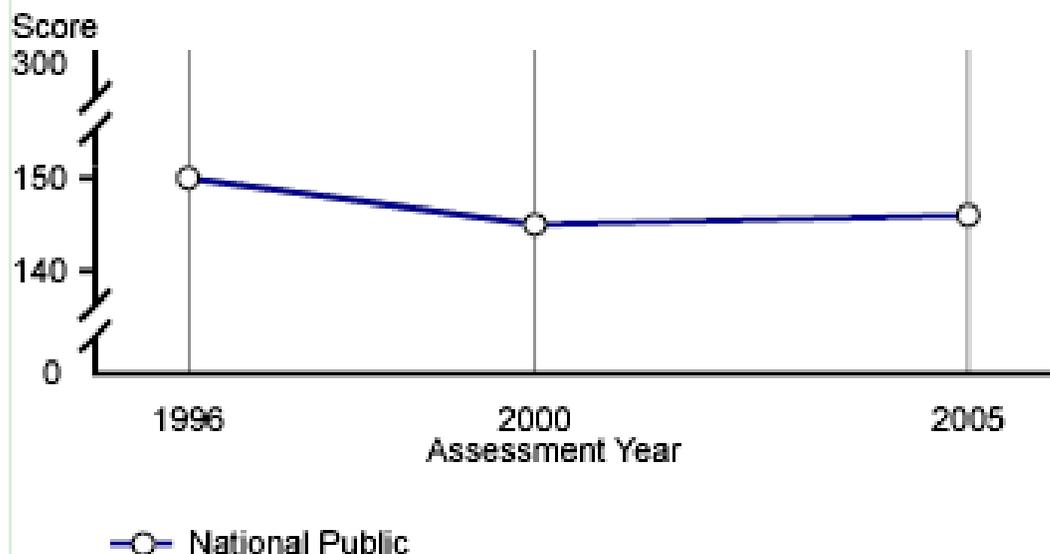
NOTE: The NAEP Reading scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, 2002, 2003, 2005 and 2007 Reading Assessments.



G12 Science shows no growth

Average scale scores for science, grade 12
All students [TOTAL] = All students
National Public, 1996, 2000 and 2005



NOTE: The NAEP Science scale ranges from 0 to 300. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1996, 2000 and 2005 Science Assessments.



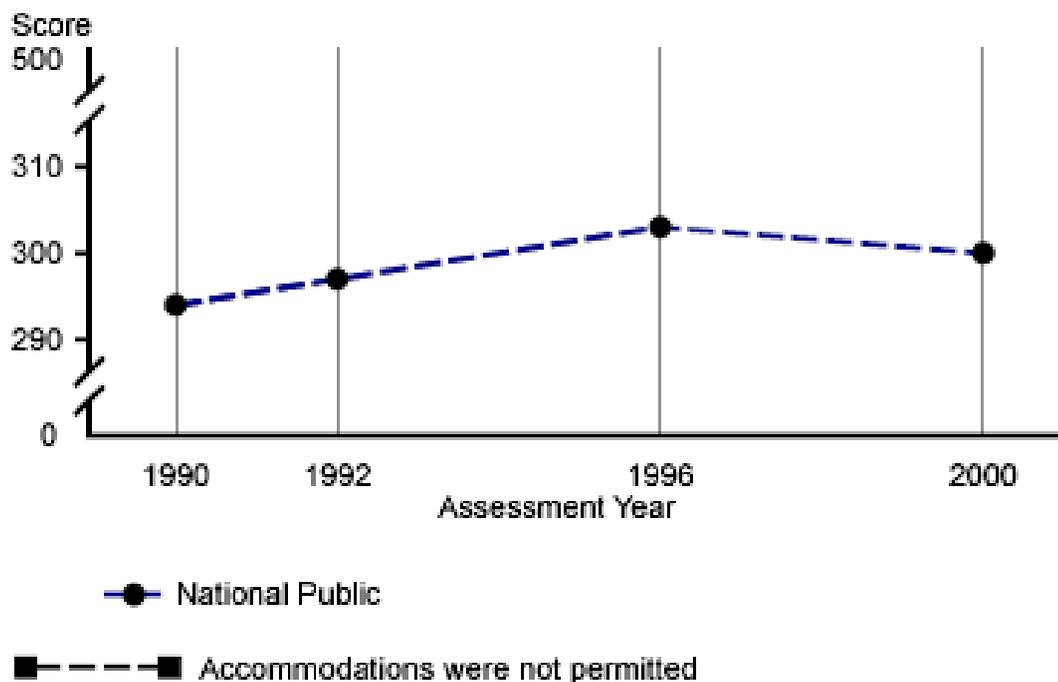
Results

Grade 12 National Level Results 1992-2007



G12 Mathematics scores decline

Average scale scores for mathematics, grade 12
All students [TOTAL] = All students
National Public, 1990, 1992, 1996 and 2000



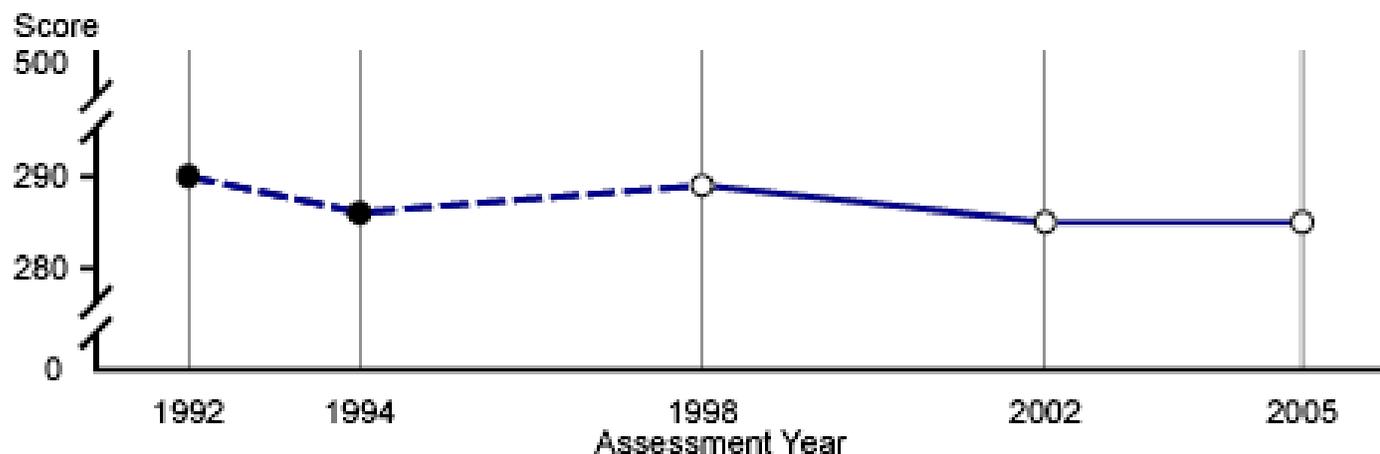
NOTE: The NAEP Mathematics scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1990, 1992, 1996 and 2000 Mathematics Assessments.



G12 Reading scores decline

Average scale scores for reading, grade 12
All students [TOTAL] = All students
National Public, 1992, 1994, 1998, 2002 and 2005



—○— National Public

■ - - - ■ Accommodations were not permitted
□ — — □ Accommodations were permitted

NOTE: The NAEP Reading scale ranges from 0 to 500. Observed differences are not necessarily statistically significant.
SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1992, 1994, 1998, 2002 and 2005 Reading Assessments.



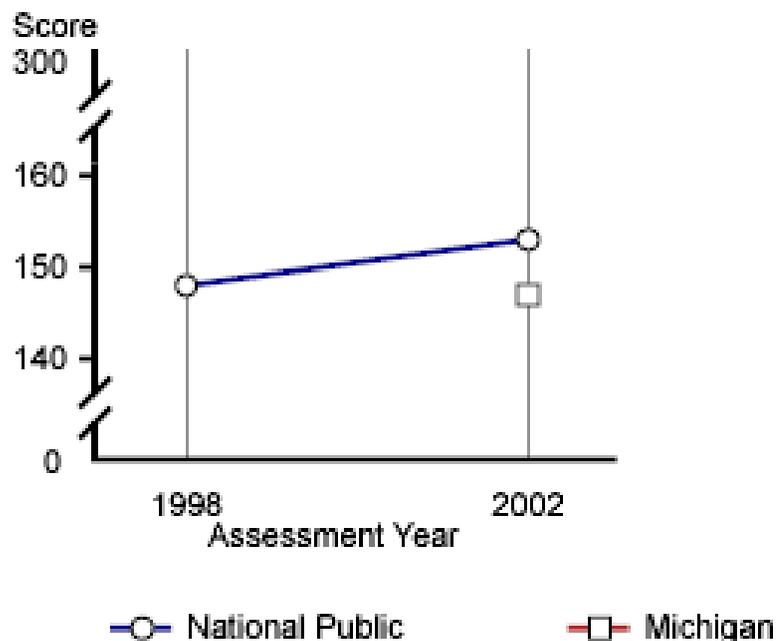
Results

Writing - National Level Results 1992-2007



G4 Writing, Michigan below national average

Average scale scores for writing, grade 4
All students [TOTAL] = All students
By jurisdiction, 1998 and 2002



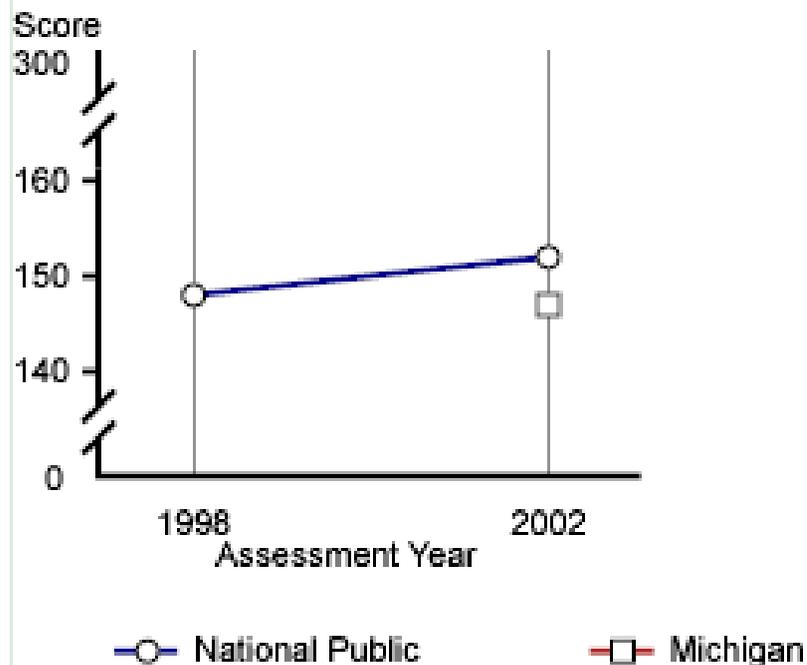
NOTE: The NAEP Writing scale ranges from 0 to 300. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Writing Assessments.



G8 Writing below national average

Average scale scores for writing, grade 8
All students [TOTAL] = All students
By jurisdiction, 1998 and 2002



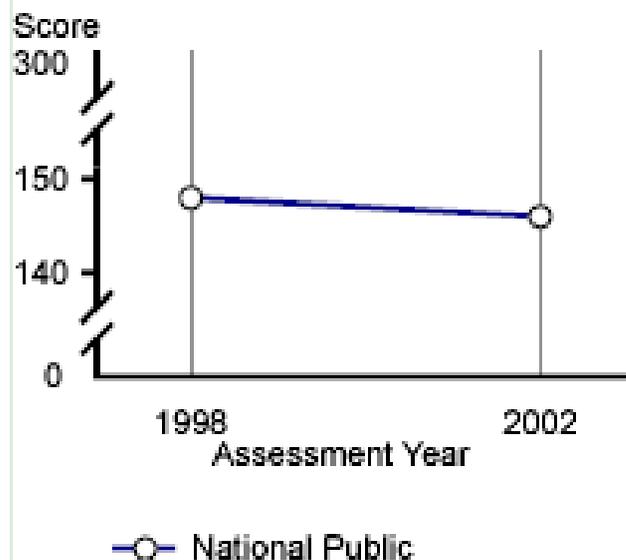
NOTE: The NAEP Writing scale ranges from 0 to 300. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Writing Assessments.



National G12 writing scores decline

Average scale scores for writing, grade 12
All students [TOTAL] = All students
National Public, 1998 and 2002



NOTE: The NAEP Writing scale ranges from 0 to 300. Observed differences are not necessarily statistically significant.

SOURCE: U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 1998 and 2002 Writing Assessments.



NAEP Questions Tool-i:

- www.mi.gov/naep
 - Go to Resources and Related Information> NAEP Released Items
 - Bookmark it??



NAEP Questions Tool-ii

An Official State of Michigan Web Site

Michigan.gov Home | MDE Home | Site Map | Contact MDE | Keywords | Online Services

Printer Friendly | Text Version | Email Page | A- A+ Text Size

NAEP National Assessment of Educational Progress

[OVERVIEW](#)
Overivew of NAEP

Resources and Related Information

- [Description of the Balanced Assessment Workshop](#) PDF
- [Register here for Balanced Assessment Workshop](#)
- [NAEP Schedule of Assessments](#) DOC
- [NAEP Newsletter, Winter 2006](#) PDF
- [NAEP Assessment Frameworks](#)
Reading, mathematics and science frameworks publications
- [NAEP Released Items](#)
The NAEP Questions Tool provides easy access to NAEP questions, student responses, and scoring guides that are released to the public. Both national and state data, where appropriate, are presented.
- [NAEP Background Questions](#)
NAEP Background Questions
- [Michigan NAEP Profile](#)
Select state profiles
- [NCLB Legislation Pertinent to NAEP](#) PDF
NCLB Legislation Pertinent to NAEP
- [National Center for Educational Statistics](#)
National Center for Educational Statistics
- [Michigan School Code Requirements for NAEP Participation](#) PDF

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School Assessment and Accountability

- OEAA Secure Site
- Adequate Yearly Progress
- English Language Proficiency Assessment (ELPA)
- Michigan Merit Examination
- Secondary Credit Assessment System
- Michigan School Report Card
- Education YES!
- Michigan Educational Assessment Program (MEAP)
- MI-Access
- National Assessment of Educational Progress
- Teacher Preparation Accountability
- State Board of Education
- Offices

Michigan Department of Education



NAEP Questions Tool-iii

Institute of Education Sciences U.S. Department of Education

ies NATIONAL CENTER FOR EDUCATION STATISTICS

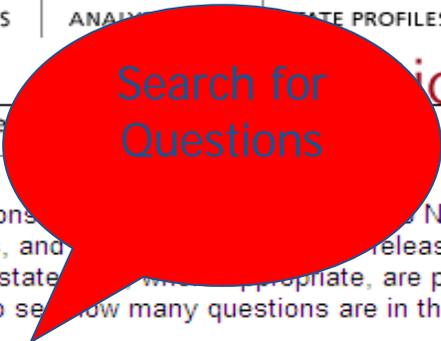
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ABOUT NAEP... SUBJECT AREAS... **HELP SITE MAP CONTACT US GLOSSARY NEWSFLASH**

SAMPLE QUESTIONS ANALYSIS STATE PROFILES PUBLICATIONS



The NAEP Questions Tool provides NAEP questions, student responses, and state profiles released to the public. Both national and state data, where appropriate, are presented. Explore the [tables below](#) to see how many questions are in the tool.

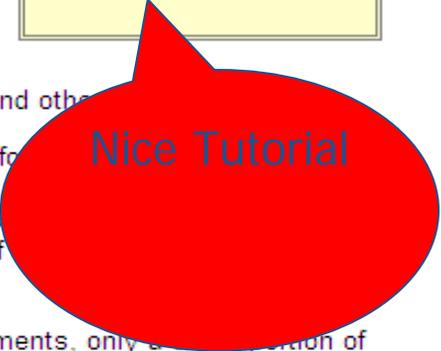
Search Options

... to begin using the NAEP Questions Tool.

These questions are presented for the use of teachers, parents, students, and other

- ◆ examples of what NAEP asks students at 4th, 8th, and 12th grades for 13, and 17 for long-term trend;
- ◆ exemplars of questions that probe students' knowledge of specific content areas;
- ◆ a way to compare one's performance on a specific question to that of other students in the nation and in the state.

Learn how to get the most out of the NAEP Questions Tool by using the [tutorial](#).



Since some questions must be kept secure for use in future NAEP assessments, only a portion of the questions are available in the tool.



NAEP Questions Tool-iv

NAEP Questions

The Nation's Report Card (home)

[Tool Help](#)

Search NAEP Questions

- ◆ [Main NAEP Questions](#)
- ◆ [Long-Term Trend Questions](#)

Main NAEP Questions (1990-2005; grades 4, 8, and 12)

Quick Search

Search for questions by subject and grade.

Mathematics

Grade 4

(optional)

Search

Advanced Search



NAEP Questions Tool-v

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NAEP Questions

The Nation's Report Card (home)

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New Search

To Print Folder: Empty

[Add All Questions](#) | [Remove All Questions](#)

208 results returned for:

Subject: **Mathematics** [[Subject Info](#)] Grade: 4

[1 - 20](#) | [21 - 40](#) | [41 - 60](#) | [61 - 80](#) | [81 - 100](#) >>

	Subject	Grade	Description	Year/Block	No.	In Folder
1	Mathematics	4 (8)	Subtract two-digit number from three-digit number	2005-4M4	1	<input type="checkbox"/>
2	Mathematics	4 (8)	Identify which shapes are cylinders	2005-4M4	2	<input type="checkbox"/>
3	Mathematics	4 (8)	Identify the missing figure in a pattern	2005-4M4	3	<input type="checkbox"/>
4	Mathematics	4 (8)	Determine how many angles are less than 90 degrees	2005-4M4	4	<input type="checkbox"/>
5	Mathematics	4 (8)	Determine the value of a point on a number line	2005-4M4	5	<input type="checkbox"/>
6	Mathematics	4 (8)	Determine area of shaded region on grid	2005-4M4	6	<input type="checkbox"/>
7	Mathematics	4 (8)	Complete a bar graph from a description of data	2005-4M4	7	<input type="checkbox"/>
8	Mathematics	4 (8)	Solve a multi-step story problem	2005-4M4	8	<input type="checkbox"/>
9	Mathematics	4 (8)	Identify numbers rounded to whole numbers	2005-4M4	9	<input type="checkbox"/>
10	Mathematics	4 (8)	Extend a pattern on grid	2005-4M4	10	<input type="checkbox"/>
11	Mathematics	4 (8)	Given a solution, determine the numbers in the problem	2005-4M4	11	<input type="checkbox"/>



NAEP Questions Tool-vi

[New Search](#)

[Previous Search Results](#)

← Question 3 of 208 →

[To Print Folder: Empty](#)

[Add Question](#)

Subject: **Mathematics** [[Subject Info](#)] Grade: 4 Block: 2005-4M4 No.: 3

Description: **Identify the missing figure in a pattern**

Question

[Performance Data](#)

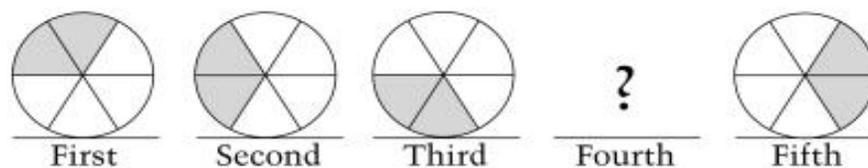
[Content Classification](#)

[Scoring Guide/Key](#)

[Student Responses](#)

[More Data](#)

[Printable Version](#)



3. Which of the figures below should be the fourth figure in the pattern shown above?

- A)
- B)
- C)



NAEP Questions Tool-viii

Description: Identify the missing figure in a pattern

[Question](#)

[Performance Data](#)

Content Classification

[Scoring Guide/Key](#)

[Student Responses](#)

[More Data](#)

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[Mathematical Content Area](#) [Mathematical Complexity](#)

Mathematical Content Area

Algebra

This content area focuses on students' understanding of patterns, relations, and functions; algebraic representation; variables, expressions, and operations; and equations and inequalities. At grade 4, students are expected to show knowledge of simple patterns and expressions; at grade 8 this knowledge extends to include linear equations; and at grade 12 it extends further to include quadratic and exponential equations and functions. Representational skills, such as students' ability to translate between different forms of representation (e.g., from a written description to an equation), the ability to graph and interpret points located on a coordinate system, and the ability to use algebraic properties to draw a conclusion, are assessed in this area. Students may be asked to express relationships algebraically as number sentences, equations, or inequalities; manipulate algebraic expressions; or solve and interpret algebraic equations and inequalities that are grade-level appropriate.

[Top](#)

Mathematical Complexity

Low Complexity

This category relies heavily on the recall and recognition of previously learned concepts and principles. Items typically specify what the student is to do, which is often to carry out some procedure that can be performed mechanically. It is not left to the student to come up with an original method or solution.



NAEP Questions Tool-ix

[Question](#) /
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 [Scoring Guide/Key](#) /
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[View Cross-State Data](#)

NAEP National Mathematics Grade 4 2005 Accommodations Permitted

Average Scale Score with Percentages (with Standard Errors in Parentheses), Mathematics

Identify the missing figure in a pattern [M067701]

All students

	A *			B			C			D			Avg. Score
	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	
All students	246 (0.2)	73 (0.3)	73 (0.3)	223 (0.6)	12 (0.2)	12 (0.2)	216 (0.9)	7 (0.2)	7 (0.2)	211 (0.7)	8 (0.2)	8 (0.2)	215

Gender

	A *			B			C			D			Avg. Score
	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	
Male	247 (0.3)	75 (0.4)	75 (0.4)	224 (0.9)	11 (0.3)	11 (0.3)	216 (1.4)	6 (0.2)	6 (0.2)	211 (1.0)	7 (0.3)	7 (0.3)	220
Female	245 (0.3)	71 (0.5)	71 (0.5)	223 (0.7)	13 (0.3)	13 (0.3)	216 (1.1)	7 (0.3)	7 (0.3)	210 (0.9)	8 (0.3)	8 (0.3)	215

Region of the country (2003 and later)

	A *			B			C			D			Avg. Score
	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	Avg. Score (S.E.)	Row Pct. (S.E.)	Row Pct. (S.E.)	
Northeast	250 (0.5)	74 (0.8)	74 (0.8)	227 (1.4)	11 (0.6)	11 (0.6)	220 (2.4)	6 (0.4)	6 (0.4)	214 (1.5)	8 (0.5)	8 (0.5)	215
Midwest	247 (0.5)	75 (0.5)	75 (0.5)	225 (1.2)	10 (0.4)	10 (0.4)	218 (1.8)	6 (0.4)	6 (0.4)	211 (1.5)	8 (0.4)	8 (0.4)	215
South	244 (0.4)	74 (0.5)	74 (0.5)	223 (0.9)	12 (0.4)	12 (0.4)	218 (1.3)	7 (0.3)	7 (0.3)	211 (1.3)	7 (0.3)	7 (0.3)	215
West	243 (0.6)	69 (0.7)	69 (0.7)	220 (1.3)	13 (0.5)	13 (0.5)	210 (1.8)	7 (0.4)	7 (0.4)	208 (1.3)	10 (0.4)	10 (0.4)	215
DoDEA International	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)	‡ (‡)





NAEP Questions Tool-x

[New Search](#)

To Print Folder: **Empty** [Add All Questions](#) | [Remove All Questions](#)

208 results returned for:

Subject: **Mathematics** [[Subject Info](#)] Grade: **4**

1 - 20 | [21 - 40](#) | [41 - 60](#) | [61 - 80](#) | [81 - 100](#) >>

	Subject	Grade	Description	Year/Block	No.	In Folder
1	Mathematics	4 (8)	Subtract two-digit number from three-digit number	2005-4M4	1	<input type="checkbox"/>
2	Mathematics	4 (8)	Identify which shapes are cylinders	2005-4M4	2	<input type="checkbox"/>
3	Mathematics	4 (8)	Identify the missing figure in a pattern	2005-4M4	3	<input checked="" type="checkbox"/>
4	Mathematics	4 (8)	Determine how many angles are less than 90 degrees	2005-4M4	4	<input type="checkbox"/>
5	Mathematics	4 (8)	Determine the value of a point on a number line	2005-4M4	5	<input type="checkbox"/>
6	Mathematics	4 (8)	Determine area of shaded region on grid	2005-4M4	6	<input type="checkbox"/>
7	Mathematics	4 (8)	Complete a bar graph from a description of data	2005-4M4	7	<input type="checkbox"/>
8	Mathematics	4 (8)	Solve a multi-step story problem	2005-4M4	8	<input type="checkbox"/>
9	Mathematics	4 (8)	Identify numbers rounded to whole numbers	2005-4M4	9	<input type="checkbox"/>
10	Mathematics	4 (8)	Extend a pattern on grid	2005-4M4	10	<input type="checkbox"/>
11	Mathematics	4	Given a solution, determine the numbers in the problem	2005-4M4	11	<input checked="" type="checkbox"/>
12	Mathematics	4	Determine missing numbers in number sentence	2005-4M4	12	<input type="checkbox"/>
13	Mathematics	4 (8)	Mark a piece of paper to satisfy a given condition	2005-4M4	13	<input type="checkbox"/>
14	Mathematics	4	Arrange tiles in different ways to satisfy given condition	2005-4M4	14	<input type="checkbox"/>
15	Mathematics	4	Identify a number given in expanded notation	2005-4M12	1	<input type="checkbox"/>
16	Mathematics	4	Subtract fractions with common denominators	2005-4M12	2	<input type="checkbox"/>
17	Mathematics	4	Solve a multi-step division problem	2005-4M12	3	<input checked="" type="checkbox"/>
18	Mathematics	4	Subtract two-digit numbers to solve a story problem	2005-4M12	4	<input type="checkbox"/>

Step 2.

Step 1.



NAEP Questions Tool-xi

Print Folder

[New Search](#)

[Previous Search Results](#)

3 items

Subject: **Mathematics**

You have selected the questions below to be printed. You can choose the information you want included in the "Print Options" section. You can rearrange and delete questions in the "Edit Options" section. When you are ready to view the printable selection of questions, click the **SAVE** button to save your changes, then click on the **Assemble Document** button. You can then print, copy or download the document you create. **Return to this page by using your browser's back button.**

PRINT OPTIONS

- | | |
|---|--|
| <input checked="" type="checkbox"/> Questions | <input type="checkbox"/> Performance Data |
| <input type="checkbox"/> Scoring Guides/Keys | <input type="checkbox"/> Content Classifications |
| <input type="checkbox"/> Student Responses | <input type="checkbox"/> Summary Page |

[Assemble Document](#)

2. Assemble

You can delete questions, change question order, and preview any question in this section. When you are finished making your edit selections, Click the **SAVE** button to update your changes. If you have made a mistake, click **Restore** to recover the previously saved list.

EDIT OPTIONS

Select an item:

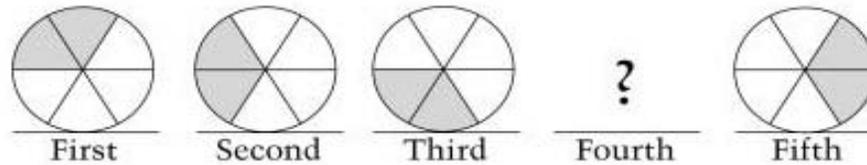
- Identify the missing figure in a pattern (Grade 4 Easy)
- Given a solution, determine the numbers in the problem (Grade 4 Easy)
- Solve a multi-step division problem (Grade 4 Medium)

 **Move Up**
 **Move Down**
 **View Question**

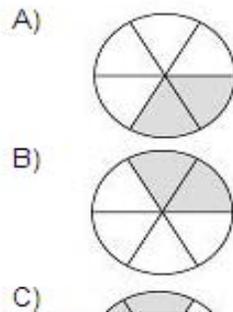
1. Edit



NAEP Questions Tool-xii



1. Which of the figures below should be the fourth figure in the pattern shown above?





NAEP Questions Tool-xiii

- Save assembled tests as html
- Open in Word to edit
- Cut and paste to other tests



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