The National Assessment of Educational Progress

A Treasure Trove of Mathematics Problems

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NAEP – National Assessment of Educational Progress

http://nces.ed.gov/nationsreportcard/
NAEP Programs

- Main NAEP – results are representative of the entire US population

- State NAEP – same items and testing format, reports achievement for fourth and eighth grade students on a state-by-state basis

- Long-Term Trend – uses different items, national sample, and testing schedule.
NAEP Content Strands in Mathematics

- Number sense, properties, and operations
- Measurement
- Geometry and spatial sense
- Data analysis, statistics, and probability
- Algebra and functions
NAEP Item Formats

- **Multiple choice format**
  - 4th grade – four choices
  - 8th & 12th grades – five choices

- **Short constructed-response**
  - Two types
    1. Students write answer in space provided.
    2. Multiple questions or a brief rationale.

- **Extended constructed-response**
  - Scored with focused, holistic rubrics
Reporting Results: Scale Score and Achievement Levels

- **Scale scores**
  - Range from 0 to 500
  - Available by content strand
  - Available by demographic characteristics
  - Designed to get a sense of performance of the nation as a whole, not performance of individual students

- **Achievement levels**
  - Basic, proficient, and advanced
  - Setting of achievement levels is controversial
    - (proficient level is very ambitious)
Questionnaires

- **Student Questionnaire**
  
  All students complete two five-minute questionnaires before the cognitive items and one five-minute questionnaire after completing the items
  
  - #1 focuses on demographics
  - #2 focuses on mathematics background & courses
  - #3 focuses on how hard the students tried and the difficulty of the assessment

- **Teacher Questionnaire**

- **School Administrator Questionnaire**
## National Results (4th Grade Main NAEP)

All grade 4 Students (National)

<table>
<thead>
<tr>
<th>Year</th>
<th>Composite</th>
<th>Number</th>
<th>Measurement</th>
<th>Geometry</th>
<th>Data/Prob</th>
<th>Algebra</th>
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<tbody>
<tr>
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<td>1992¹</td>
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<td>2009</td>
<td>240</td>
<td>238</td>
<td>238</td>
<td>239</td>
<td>243</td>
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</tr>
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<td>2011</td>
<td>241</td>
<td>240</td>
<td>238</td>
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<td>243</td>
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<td>2013</td>
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<td>242</td>
<td>239</td>
<td>241</td>
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<td>245</td>
</tr>
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</table>

**Total Gain**
- 28
- 32
- 20
- 29
- 22
- 31
### National Results (8th Grade Main NAEP)

All students Grade 8
(national)

<table>
<thead>
<tr>
<th>Year</th>
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<td>1996</td>
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<td>290</td>
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</table>

**Total Gain**: 21, 14, 21, 22, 23, 29
NAEP Online Tools
Learn More About the Tools Available Online

http://nces.ed.gov/nationsreportcard/about/naeptools.asp
Main NAEP Question Tool
Accessing the Questions

Click on “Try it Now” from the tools and applications page........
Accessing the Questions

Or click on “Questions Tool” link
Main NAEP Mathematics Questions Search
Main NAEP Mathematics Questions Search


<table>
<thead>
<tr>
<th>Year</th>
<th>Grade</th>
<th>Block</th>
<th>Type</th>
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<th>Description</th>
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<tr>
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<td>4</td>
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<td>MC</td>
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<tr>
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<td>M5</td>
<td>2</td>
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<td>M5</td>
<td>5</td>
<td>MC</td>
<td>Medium</td>
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<td>M5</td>
<td>6</td>
<td>ECR</td>
<td>Hard</td>
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<tr>
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<td>M5</td>
<td>7</td>
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<td>Easy</td>
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<tr>
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<td>M5</td>
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<td>DCR</td>
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<tr>
<td>2008</td>
<td>4</td>
<td>M5</td>
<td>9</td>
<td>MC</td>
<td>Medium</td>
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<tr>
<td>2008</td>
<td>4</td>
<td>M5</td>
<td>10</td>
<td>MC</td>
<td>Hard</td>
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To preview a question here, click on a row above.
Main NAEP Mathematics Questions Search

NAEP Questions Tool

NATIONAL CENTER FOR EDUCATION STATISTICS
U.S. Department of Education
Institute of Education Sciences

Search Results (852 of 852)

- Add All Questions
- Remove All Questions
- Print/Save List
- Show/Hide

<table>
<thead>
<tr>
<th>Year</th>
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<th>Type</th>
<th>Difficulty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
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<td>M5</td>
<td>1</td>
<td>MC</td>
<td>Easy</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>2</td>
<td>MC</td>
<td>Easy</td>
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<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>3</td>
<td>SCR</td>
<td>Easy</td>
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<td>4</td>
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<td>SCR</td>
<td>Medium</td>
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<tr>
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<td>2009</td>
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<td>SCR</td>
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<td>9</td>
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<td>Medium</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>10</td>
<td>MC</td>
<td>Hard</td>
</tr>
</tbody>
</table>

To preview a question here, click on a row above.

Main NAEP Mathematics Questions Search

[Image of the NAEP Questions Tool]

[Search Results for Mathematics Questions]

## Main NAEP Mathematics Search Results

The NAEP Questions Tool allows educators and researchers to search for mathematics questions based on various criteria such as grade, type, and difficulty. Here are some sample questions found in the search results:

<table>
<thead>
<tr>
<th>Year</th>
<th>Grade</th>
<th>Block</th>
<th>#</th>
<th>Type</th>
<th>Difficulty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>4</td>
<td>SCR</td>
<td>Medium</td>
<td>Use given pieces to make shape with certain properties</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M6</td>
<td>12</td>
<td>SCR</td>
<td>Medium</td>
<td>Extend a number pattern and write rule</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M6</td>
<td>15</td>
<td>SCR</td>
<td>Medium</td>
<td>Determine missing numbers on a number line</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M10</td>
<td>11</td>
<td>SCR</td>
<td>Medium</td>
<td>Reason about odd and even numbers</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M9</td>
<td>13</td>
<td>SCR</td>
<td>Medium</td>
<td>Outline different squares in a figure</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M9</td>
<td>18</td>
<td>SCR</td>
<td>Medium</td>
<td>Compare unit fractions to solve a problem</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>4</td>
<td>SCR</td>
<td>Medium</td>
<td>Add data to a bar graph</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>14</td>
<td>SCR</td>
<td>Medium</td>
<td>Explain how to find perimeter of a given shape</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>16</td>
<td>SCR</td>
<td>Medium</td>
<td>Identify color with highest chance of being chosen</td>
</tr>
<tr>
<td>2005</td>
<td>4</td>
<td>M4</td>
<td>7</td>
<td>SCR</td>
<td>Medium</td>
<td>Complete a bar graph from a description of data</td>
</tr>
</tbody>
</table>

To preview a question, click on a row above.

[View Question Details](http://nces.ed.gov/nationsreportcard/itmrlsx/search.aspx?subject=mathematics)
Item Preview

NAEP Questions Tool

Search for Questions | Mathematics Search Results

Refine Search

Grade
- Grade 4 (27)
- Grade 8 (697)
- Grade 12 (697)

Type
- Multiple Choice (9)
- Short Response (27)
- Extended Response (9)

Difficulty
- Easy (6)
- Medium (27)
- Hard (6)

Select Content Classifications | Select Years | Perform Keyword Search

Search Results (27 of 852) | My Workspace (0)

<table>
<thead>
<tr>
<th>Year</th>
<th>Grade</th>
<th>Block</th>
<th>Type</th>
<th>Difficulty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>SCR</td>
<td>Medium</td>
<td>Use given pieces to make a shape with certain properties</td>
</tr>
<tr>
<td>2009</td>
<td>4</td>
<td>M5</td>
<td>SCR</td>
<td>Medium</td>
<td>Extend a number pattern and write rule</td>
</tr>
<tr>
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<td>4</td>
<td>M5</td>
<td>SCR</td>
<td>Medium</td>
<td>Determine missing numbers on a number line</td>
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<td>4</td>
<td>M10</td>
<td>SCR</td>
<td>Medium</td>
<td>Reason about odd and even numbers</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M9</td>
<td>SCR</td>
<td>Medium</td>
<td>Outline different squares in a figure</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M9</td>
<td>SCR</td>
<td>Medium</td>
<td>Compare unit fractions to solve a problem</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>SCR</td>
<td>Medium</td>
<td>Add data to a bar graph</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>SCR</td>
<td>Medium</td>
<td>Explain how to find perimeter of a given shape</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>SCR</td>
<td>Medium</td>
<td>Identify color with highest chance of being chosen</td>
</tr>
<tr>
<td>2005</td>
<td>4</td>
<td>M4</td>
<td>SCR</td>
<td>Medium</td>
<td>Complete a bar chart from a description of data</td>
</tr>
</tbody>
</table>

View Question Detail

Questions 1-6 refer to pieces \( R \), \( T \), and \( X \).
You will need two pieces labeled \( X \) to answer this question.

4. Use the pieces to make a shape that has these properties.

Accessible version

Questions 1-5 refer to pieces R, T and X.

You will need two pieces labeled X to answer this question.

4. Use the pieces to make a shape that has these properties:

- It has four sides.
- No pieces overlap.
- No two sides are parallel.

In the space below, trace the shape.

Draw the line to show where the two pieces meet.
Show Additional Materials

NAEP Questions Tool

Analyse Data | Sample Questions | State Comparisons | State Profiles | District Profiles

Search for Questions >> Mathematics Search Results >> Question Detail

What can I do here?

Question Information
- **Description**: Use given pieces to make shape with certain properties
- **Grade**: 4
- **Year**: 2009
- **Block & Number**: Block 05 Question #4
- **Type of Question**: Short Constructed Response
- **Difficulty**: Medium (43.7% Correct)
- **Content Classification**: Geography
- **Complexity (2005 and on)**: Moderate
NAEP Questions Tool

Question Information
- **Description:** Use given pieces to make shape with certain properties
- **Grade:** 4
- **Year:** 2003
- **Block & Number:** Block M5 Question #4
- **Type of Question:** Short Constructed Response
- **Difficulty:** Medium (43.7% Correct)
- **Content Classification:**
  - **Content Area:** Geometry
  - **Complexity (2005 and on):** Moderate

Solution:

```
OR
```

Score & Description

**Correct**

Correct response

**Partial**

A four-sided figure with parallel sides with meeting lines drawn. OR
A correct shape but meeting lines is incorrect. OR
A 3-sided figure or a figure with more than four sides, and the sides are not parallel with meeting lines drawn. OR
Either of the correct shapes is drawn without the line where the pieces meet

**Incorrect**

Incorrect response
Sample Responses

NAEP Questions Tool

Question Information
- **Description:** Use given pieces to make shape with certain properties
- **Grade:** 4
- **Year:** 2009
- **Block & Number:** Block 055 Question 4
- **Type of Question:** Short Constructed Response
- **Difficulty:** Medium (43.7% Correct)
- **Content Classification:**
  - **Content Area:** Geometry
  - Complexity: Low 2005 and one: Moderate

**Correct - Student Response**

4. Use the pieces to make a shape that has these properties.
   - It has four sides.
   - No pieces overlap.
   - No two sides are parallel.
   - In the space below, trace the shape.

Draw the line to show where the two pieces meet.

4. Use the pieces to make a shape that has these properties.
   - It has four sides.
   - No pieces overlap.
National Performance Summary

NAEP Questions Tool

NAEP national performance results in Mathematics at grade 4: 2009
Use given pieces to make shape with certain properties

- Score
- Incorrect: 29%
- Partial: 45%
- Correct: 21%
- On Task: 93%
- Off Task: 0%

Percentage of Students: 0 to 100

NOTE: These results are for public and non-public school students. Percentages may not add to 100 due to rounding.
### NAEP Questions Tool

#### National Data

**Description:** Use given pieces to make shape with certain properties

**Grade:** 4

**Year:** 2006

**Block & Number:** Block US Question #4

**Type of Question:** Short Constructed Response

**Difficulty:** Medium (43.7% Correct)

**Content Classification:**
- **Content Area:** Geometry
- **Complexity (2005 and on):** Moderate

**National scale score and percentage of students in each response category in NAEP Mathematics at grade 4: 2006**

<table>
<thead>
<tr>
<th>Component</th>
<th>Incorrect</th>
<th>Partial</th>
<th>Correct</th>
<th>Omitted</th>
<th>Offtask</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Avg Row</td>
<td>Avg Row</td>
<td>Avg Row</td>
<td>Avg Row</td>
<td>Avg Row</td>
</tr>
<tr>
<td>Score (S, E)</td>
<td>23 (0.4)</td>
<td>24 (0.4)</td>
<td>46 (0.4)</td>
<td>202 (0.8)</td>
<td>21 (0.3)</td>
</tr>
<tr>
<td>Prop (S, E)</td>
<td>21 (0.3)</td>
<td>21 (0.3)</td>
<td>5 (0.2)</td>
<td>1 (0.1)</td>
<td>0.1</td>
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</tbody>
</table>

# Rounds to zero.

† Reporting standards not met.

† Not applicable.

**Note:** The NAEP Mathematics scale ranges from 0 to 500. Some apparent differences between estimates may not be statistically significant.

**Source:** U.S. Department of Education, Institute of Education Sciences, National Center for Education Statistics, National Assessment of Educational Progress (NAEP), 2009 Mathematics Assessment.
Jurisdiction Data

NAEP Questions Tool

Jurisdiction Data

Question Information
- Description: Use given pieces to make shape with certain properties
- Grade: 4
- Year: 2009
- Block & Number: Block #5 Question #4
- Type of Question: Short Constructed Response
- Difficulty: Medium (43.7% Correct)
- Content Classification:
  - Content Area: Geometry
  - Complexity (2005 and on): Moderate

National average scale score and percentage of students in each response category in NAEP Mathematics at grade 4: 2009

Use given pieces to make shape with certain properties

<table>
<thead>
<tr>
<th>All students</th>
<th>Incorrect</th>
<th>Partial</th>
<th>Correct</th>
<th>Off Task</th>
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<td>36.02</td>
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<tr>
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<td>243.6</td>
<td>40.32</td>
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<td>245.1</td>
<td>40.32</td>
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<td>Massachusetts</td>
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<td>252.1</td>
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<tr>
<td>Nebraska</td>
<td>227.3</td>
<td>27.00</td>
<td>243.7</td>
<td>40.32</td>
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</tbody>
</table>
Adding Items to Workspace
Adding Items to Workspace

NAEP Questions Tool

Search Results (27 of 852)

Select Grade, Type, Difficulty

Grade
- Grade 4 (27)
- Grade 8 (9)
- Grade 12 (6)

Type
- Multiple Choice (6)
- Short Constructed Response (27)
- Extended Constructed Response (0)

Difficulty
- Easy (8)
- Medium (27)
- Hard (5)

Search for Questions Mathematics Search Results

Add All Questions
Remove All Questions
Print/Save List
ShowHide

Search Results

<table>
<thead>
<tr>
<th>Year</th>
<th>Grade</th>
<th>Block</th>
<th>#</th>
<th>Type</th>
<th>Difficulty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>4</td>
<td>M5</td>
<td>4</td>
<td>SCR</td>
<td>Medium</td>
<td>Use given pieces to make shape with certain properties</td>
</tr>
<tr>
<td>2006</td>
<td>4</td>
<td>M5</td>
<td>12</td>
<td>SCR</td>
<td>Medium</td>
<td>Extend a number pattern and write rule</td>
</tr>
<tr>
<td>2006</td>
<td>4</td>
<td>M5</td>
<td>15</td>
<td>SCR</td>
<td>Medium</td>
<td>Determine missing numbers on a number line</td>
</tr>
<tr>
<td>2006</td>
<td>4</td>
<td>M12</td>
<td>11</td>
<td>SCR</td>
<td>Medium</td>
<td>Reason about odd and even numbers</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M5</td>
<td>13</td>
<td>SCR</td>
<td>Medium</td>
<td>Outline different squares in a figure</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M9</td>
<td>18</td>
<td>SCR</td>
<td>Medium</td>
<td>Compare fractions to solve a problem</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>4</td>
<td>SCR</td>
<td>Medium</td>
<td>Add data to a bar graph</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>14</td>
<td>SCR</td>
<td>Medium</td>
<td>Explain how to find perimeter of a given shape</td>
</tr>
<tr>
<td>2007</td>
<td>4</td>
<td>M11</td>
<td>18</td>
<td>SCR</td>
<td>Medium</td>
<td>Identify color with highest chance of being chosen</td>
</tr>
<tr>
<td>2005</td>
<td>4</td>
<td>M4</td>
<td>7</td>
<td>SCR</td>
<td>Medium</td>
<td>Complete a bar graph from a description of data</td>
</tr>
<tr>
<td>2005</td>
<td>4</td>
<td>M4</td>
<td>8</td>
<td>SCR</td>
<td>Medium</td>
<td>Solve a multi-step story problem</td>
</tr>
<tr>
<td>2005</td>
<td>4</td>
<td>M4</td>
<td>12</td>
<td>SCR</td>
<td>Medium</td>
<td>Determine missing numbers in number sentence</td>
</tr>
<tr>
<td>2003</td>
<td>4</td>
<td>M6</td>
<td>8</td>
<td>SCR</td>
<td>Medium</td>
<td>Complete a letter pattern</td>
</tr>
<tr>
<td>2003</td>
<td>4</td>
<td>M10</td>
<td>10</td>
<td>SCR</td>
<td>Medium</td>
<td>Locate two points on a grid, given coordinates</td>
</tr>
<tr>
<td>2003</td>
<td>4</td>
<td>M10</td>
<td>13</td>
<td>SCR</td>
<td>Medium</td>
<td>Read the temperature shown on a thermometer</td>
</tr>
<tr>
<td>1996</td>
<td>4</td>
<td>M9</td>
<td>1</td>
<td>SCR</td>
<td>Medium</td>
<td>Relate a Fraction to 1</td>
</tr>
<tr>
<td>1996</td>
<td>4</td>
<td>M10</td>
<td>2</td>
<td>SCR</td>
<td>Medium</td>
<td>Assemble Pieces to Form Shape</td>
</tr>
</tbody>
</table>

View Question Detail

To preview a question, click on a row above.
Adding Items to Workspace

NAEP Questions Tool

Search Results (27 of 152)
Using Workspace
1. In each figure below, outline a square. The squares must not be the same size.

2. Mark says $\frac{1}{4}$ of his candy bar is smaller than $\frac{1}{5}$ of the same candy bar.

   Is Mark right?  ○ Yes  ○ No

   Draw a picture or use words to explain why you think Mark is right or wrong.

3. The students in a class each counted the number of letters in their first names. The class made the graph below of the results.

   A new student, Victor, joined the class. Draw on the graph to include the data for Victor.
Example of Multiple-choice item

<table>
<thead>
<tr>
<th>Year</th>
<th>Grade</th>
<th>Block</th>
<th>#</th>
<th>Type</th>
<th>Difficulty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>3</td>
<td>MC</td>
<td>Easy</td>
<td>Identify given angle with angle greater than 90 degrees.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>4</td>
<td>MC</td>
<td>Medium</td>
<td>Identify figures with equivalent areas.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>5</td>
<td>MC</td>
<td>Easy</td>
<td>Identify steps in a transformation.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>8</td>
<td>MC</td>
<td>Easy</td>
<td>Use estimation to find a difference.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>9</td>
<td>MC</td>
<td>Easy</td>
<td>Determine the probability of a particular outcome.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>10</td>
<td>MC</td>
<td>Easy</td>
<td>Identify percent representation of equivalent fractions.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>12</td>
<td>MC</td>
<td>Medium</td>
<td>Solve arithmetic problem involving time.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>15</td>
<td>MC</td>
<td>Medium</td>
<td>Find length of hypotenuse.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M5</td>
<td>16</td>
<td>MC</td>
<td>Hard</td>
<td>Identify operation resulting in odd integer.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>1</td>
<td>MC</td>
<td>Easy</td>
<td>Identify equation equivalent to given equation.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>2</td>
<td>MC</td>
<td>Easy</td>
<td>Determine possible dimensions of rectangle, given area.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>3</td>
<td>MC</td>
<td>Easy</td>
<td>Identify side with same length in congruent figures.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>4</td>
<td>MC</td>
<td>Easy</td>
<td>Identify numbers with digit in hundredths place.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>6</td>
<td>MC</td>
<td>Easy</td>
<td>Determine a quantity based on given percent.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>6</td>
<td>MC</td>
<td>Hard</td>
<td>Determine area of a right trapezoid.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>7</td>
<td>MC</td>
<td>Easy</td>
<td>Identify solution from graph of linear equations.</td>
</tr>
<tr>
<td>2008</td>
<td>8</td>
<td>M10</td>
<td>8</td>
<td>MC</td>
<td>Medium</td>
<td>Represent length of rectangle in terms of width.</td>
</tr>
</tbody>
</table>

B. A loaded trailer truck weighs 26,643 kilograms. When the trailer truck is empty, it weighs 16,547 kilograms. About how much does the load weigh?

A. 14,000 kilograms
B. 10,000 kilograms
C. 18,000 kilograms
D. 36,196 kilograms
1. The graph below and written summary on the next page present information about the sleep habits of newborn babies, one year olds, four year olds, and ten year olds. Each solid bar represents a period of sleep.

   Some of the information presented in the summary does not agree with the information in the graph.

   For example, there is an error in sentence 1 that has already been identified and corrected for you.

   ![Graph of sleep habits of young children]

   - In sentences 2 and 3 below, underline the information that is not correct based on the graph. There is an error in each statement.
   - Then, write the correct information above the errors in sentences 2 and 3.

   (1) According to research that has been done on sleep habits and patterns of sleep in children, the number of hours that a newborn baby sleeps in a 24-hour period of time is less than that of a ten year old.

   (2) From the time a child is born until it reaches age ten, the number of different time periods of sleep increases as the child grows older.

   (3) Newborns need 2 more hours of sleep than ten year olds between 6 a.m. and 6 p.m.

Did you use the calculator on this question?

- Yes
- No
Long-term Trend Item Tool
Long-term Trend Item Search

NAEP Enhanced Question Tool

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- Compare results to student performance across nation
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*Passwords must be a minimum of 8 characters in length and must have at least one of each of the following: upper case letter, lower case letter, number, one of these special characters: ! @ # $ % ^ & * () _ + =

Confirm Password:

Create Account
Create an Account to save and manage lists, create test rosters, and administer tests online.

User ID: (Email Address)
walcott@iupuc.edu

Password:
*******
*Passwords must be a minimum of 8 characters in length and must have at least one of each of the following:
Upper case letter, lower case letter, number, one of these special characters:
! @ # $ % ^ & * ( ) _ + - =

Confirm Password:
*******

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Signing into Account

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- See actual student responses

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- Select a preformatted assessment
- Use one of our pre-formatted assessments, or make your own customized assessment for your classroom.
- Create an account and you'll be able to make a student roster and save your assessments for use throughout the school year.

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Password:

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Create a Customized Test
Create a Customized Test

http://nces.ed.gov/nationsreportcard/nqt
Customized Test Options

NAEP Questions Tool

Select subject and grade(s) to get started:
- Grade: [ ] Grade 4  [ ] Grade 8  [ ] Grade 12
- I want to see my results as: [ ] Grid view  [ ] Drag 'n Drop

Select any of the available options below to further narrow your search results:
- Content Classifications
  - [ ] Content Area
    - Number properties and operations
    - Measurement
    - Geometry
    - Data analysis and Probability
  - [ ] Algebra
    - Complexity (2005 and on)
      - [ ] Low
      - [ ] Moderate
      - [ ] High
    - Conceptual understanding
    - Procedural knowledge
    - Problem solving
- Types
  - [ ] Type
    - Multiple Choice - MC
    - Short Constructed Response - SCR
    - Extended Constructed Response - ECR
- Difficulty Levels
  - [ ] Difficulty
    - Easy
    - Medium
    - Hard

Questions available: 440  Get Count

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Customized Test Options

NAEP Questions Tool

Select subject and grade(s) to get started:
- Subjects: Mathematics
- Grade: Grade 4, Grade 6, Grade 12

Select any of the available options below to further narrow your search results:
- Content Classifications
  - Content Area
  - Number properties and operations
  - Measurement
  - Geometry
  - Data analysis and Probability
  - Algebra
  - Complexity (2005 and on)
    - Low
    - Moderate
    - High
  - Ability (1990-2003)
    - Conceptual understanding
    - Procedural knowledge
    - Problem solving

- Types
  - Type
    - Multiple Choice - MC
    - Short Constructed Response - SCR
    - Extended Constructed Response - ECR

- Difficulty Levels
  - Difficulty
    - Easy
    - Medium
    - Hard

Questions available: 440

Get Count
Revised Test Options

NAEP Questions Tool

Select subject and grade(s) to get started.

Subject: Mathematics
Grade: Grade 4  Grade 8  Grade 12

I want to see my results as: Grid View  Drag 'n Drop

Questions available: 12

Select any of the available options below to further narrow your search results:

Content Classifications
- Content Area
- Number properties and operations
- Measurement
- Geometry
- Data analysis and Probability
- Algebra
- Complexity (2005 and on)
- Low
- Moderate
- High
- Conceptual understanding
- Procedural knowledge
- Problem solving

Types
- Multiple Choice - MC
- Short Constructed Response - SCR
- Extended Constructed Response - ECR

Years
- 2013
- 2011
- 2009
- 2007
- 2005
- 2003
- 1995
- 1992
- 1990
- 1988
- 1982
- 1980

Difficulty Levels
- Difficulty
- Easy
- Medium
- Hard
Revised Test Options
Drag-n-Drop View

Search Results (12):
Subject: Mathematics, Grade: 8, Years: 2013
Content Classifications: Number properties and operations, Measurement, Geometry, Data analysis and Probability, Algebra, Low, Moderate, High, Types: SCR, ECR, Difficulty Levels: Easy, Medium, Hard

Determine complete sample space

Selected Questions (0) clear

Add All Questions

Add Question
Drag-n-Drop View
A nickel, a dime, and a quarter are flipped at the same time. Each coin can land either heads up (H) or tails up (T). List all the different possible outcomes for this event in the chart below. The list has been started for you.

<table>
<thead>
<tr>
<th>Nickel</th>
<th>Dime</th>
<th>Quarter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>H</td>
<td>H</td>
</tr>
<tr>
<td>H</td>
<td>H</td>
<td>T</td>
</tr>
</tbody>
</table>
### Scoring Guide

#### Solution:
- Sample Correct Response:
  - HHH - given
  - HHT - given
  - HTT
  - HTH
  - THT
  - TTH
  - TTT
  - THH

#### Score and Description

- **Correct**
  - Correct response, with no repeated or duplicated responses in list

- **Partial 1**
  - All 6 correct outcomes (in addition to the 2 that were given) with 1 or more duplicated responses in list

- **Partial 2**
  - 4 - 5 different correct outcomes (in addition to the 2 that were given) with or without duplicated responses in list

- **Incorrect**
  - Incorrect response
### Performance Data

**Percentages for mathematics, grade 8 by jurisdiction, year and Determine complete sample space (Expand)**

**[M1499E1]: 2013**

2013, National

<table>
<thead>
<tr>
<th>Category</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incorrect</td>
<td>27</td>
</tr>
<tr>
<td>Partial 2</td>
<td>40</td>
</tr>
<tr>
<td>Partial 1</td>
<td>3</td>
</tr>
<tr>
<td>Correct</td>
<td>27</td>
</tr>
<tr>
<td>Omitted</td>
<td>3</td>
</tr>
<tr>
<td>Off task</td>
<td>#</td>
</tr>
</tbody>
</table>
Dragging the Items

Search Results (12):
Subject: Mathematics, Grade: 8, Years: 2013
Content Classifications: Number properties and operations, Measurement, Geometry, Data analysis and Probability, Algebra, Low, Moderate, High, Types: SCR, ECR, Difficulty Levels: Easy, Medium, Hard

Read graph to solve a problem

Grade: 8  Hard
Algebra

SCR: ____________________

Selected Questions (1)

Add All Questions

Add Question
Saving the List
Saving BEFORE signing in

Copy and save this link as a bookmark in order to access the current item list at any time.
Enter this link in your browser:


Or enter an email address for the bookmark link to be sent to:

Email Address: djmohr@usi.edu

Note: Sign in with a User ID to save and manage multiple lists.
Email Received

Item List Bookmark

From: nqt@nces.ed.gov
Sun 10/26/2014 9:02 AM

To: Mohr, Doris;

Click here for bookmark.
Saving AFTER signing in

Determine complete sample space

Save

Saving will allow your list to be published as an online test and managed whenever you sign in. See Saved Lists under your account.

Item List
Mathematics, Grade 8

Save  Close
Determining complete sample space

Grade 8
Medium

Data analysis, and probability

SCR: 

Selected Questions (12) clear

Add All Questions

Add Question
Download the Questions
Selecting a Pre-formatted Test
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- See actual student responses from NAEP assessments.

Try NAEP Questions
- Test yourself with actual NAEP questions.

Create Tests
- Select a preformatted test
- Make a customized test
- Use one of our pre-formatted assessments, or make your own customized assessment for your classroom.
- Create an account and you'll be able to make a student roster and save your assessments for use throughout the school year.

http://nces.ed.gov/nationsreportcard/nqt
Preformatted Test Options

Choose a subject and grade to select a preformatted list of questions.

Mathematics

Grade 4

Number of Questions:
12 Questions

Approximate Time:
12 Minutes
Preformatted Test Options

Number of Questions: 12
Approximate Time: 12 Minutes
Preformatted Test Options
Preformatted Test Results

Selected Questions (12)

<table>
<thead>
<tr>
<th>#</th>
<th>Actions</th>
<th>Question ID</th>
<th>Description</th>
<th>Grade</th>
<th>Year</th>
<th>Block</th>
<th>Difficulty</th>
<th>Type</th>
<th>Content Classification</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>124</td>
<td>✓</td>
<td>2009-4M1D #12</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>4</td>
<td>2009</td>
<td>4M1D</td>
<td>Medium</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>125</td>
<td></td>
<td>2009-4M1D #13</td>
<td>Extend a pattern and explain answer</td>
<td>4</td>
<td>2009</td>
<td>4M1D</td>
<td>Hard</td>
<td>SCR</td>
<td>Algebra</td>
<td>No</td>
</tr>
<tr>
<td>126</td>
<td>✓</td>
<td>2009-4M1D #14</td>
<td>Estimate length of object by indirect measurement</td>
<td>4</td>
<td>2009</td>
<td>4M1D</td>
<td>Hard</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>127</td>
<td>✓</td>
<td>2009-4M1D #15</td>
<td>Identify fraction closest to given value</td>
<td>4</td>
<td>2009</td>
<td>4M1D</td>
<td>Hard</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>128</td>
<td></td>
<td>2009-4M1D #16</td>
<td>Plot points on grid to satisfy given conditions</td>
<td>4</td>
<td>2009</td>
<td>4M1D</td>
<td>Medium</td>
<td>ECR</td>
<td>Geometry</td>
<td>No</td>
</tr>
</tbody>
</table>

Show Question
### Select All Items: Clear All Selections

<table>
<thead>
<tr>
<th>#</th>
<th>Actions</th>
<th>Question ID</th>
<th>Description</th>
<th>Grade</th>
<th>Year</th>
<th>Block</th>
<th>Difficulty</th>
<th>Type</th>
<th>Content Classification</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>124</td>
<td>✔️</td>
<td>2009-4M10 #12</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>125</td>
<td></td>
<td>2009-4M10 #13</td>
<td>Extend a pattern and explain answer</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Hard</td>
<td>SCR</td>
<td>Algebra</td>
<td>No</td>
</tr>
<tr>
<td>126</td>
<td>✔️</td>
<td>2009-4M10 #14</td>
<td>Estimate length of object by indirect measurement</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Hard</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>127</td>
<td>✔️</td>
<td>2009-4M10 #15</td>
<td>Identify fraction closest to given value</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Hard</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>128</td>
<td></td>
<td>2009-4M10 #16</td>
<td>Plot points on grid to satisfy given conditions</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>ECR</td>
<td>Geometry</td>
<td>No</td>
</tr>
</tbody>
</table>

### Hide Question

<table>
<thead>
<tr>
<th>Question</th>
<th>Key/Scoring Guide</th>
<th>Sample Responses</th>
<th>Performance Data</th>
<th>Print</th>
</tr>
</thead>
</table>

Emily needs to measure the length of a table. She has a dollar bill that is about 6 inches long. It fits, end to end, 10 times along the length of the table. Which is the best estimate for the length of the table?

- A. 5 feet
- B. 6 feet
- C. 10 feet
- D. 12 feet

Question ID: 2009-4M10 #14 M239501
### Performance Data

#### Table

<table>
<thead>
<tr>
<th>Performance</th>
<th>Percentage</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>33</td>
</tr>
<tr>
<td>B</td>
<td>24</td>
</tr>
<tr>
<td>C</td>
<td>21</td>
</tr>
<tr>
<td>D</td>
<td>20</td>
</tr>
<tr>
<td>Omitted</td>
<td>2</td>
</tr>
</tbody>
</table>

---

Percentages for mathematics, grade 4 by jurisdiction, year and estimate length of object by indirect measurement [M138501]: 2009

2009, National
### View List

The image displays a webpage interface for managing test questions, specifically for Mathematics, Grade 4. The interface allows users to view, edit, and manage questions listed in a grid format. Each row in the grid represents a question, with columns for ID, description, grade, year, block, difficulty, type, content classification, and flag for online availability.

#### Table:

<table>
<thead>
<tr>
<th>#</th>
<th>Actions</th>
<th>Question ID</th>
<th>Description</th>
<th>Grade</th>
<th>Year</th>
<th>Block</th>
<th>Difficulty</th>
<th>Type</th>
<th>Content Classification</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td></td>
<td>2006-4M10 #7</td>
<td>Identify the value of a point on a number line</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>7</td>
<td></td>
<td>2006-4M10 #8</td>
<td>Determine missing shapes in a pattern</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Algebra</td>
<td>Yes</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td>2006-4M10 #9</td>
<td>Identify figure with greatest area on a grid</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>2006-4M10 #10</td>
<td>Identify shape of shaded region</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Geometry</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>2006-4M10 #12</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>MC</td>
<td>Number properties and operations</td>
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<td></td>
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<td>2009</td>
<td>4M10</td>
<td>Hard</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
</tbody>
</table>

- **Actions:** Edit, delete, or move questions.
- **Question ID:** Unique identifier for each question.
- **Description:** Text describing the question.
- **Grade:** Level of education.
- **Year:** Year of publication.
- **Block:** Version or edition of the text.
- **Difficulty:** Level of difficulty.
- **Type:** Format of the question (MC for multiple choice).
- **Content Classification:** Subject area.
- **Online:** Available for online use.
### Actions

**What can I do here?**
- Use this list as is and select Publish Test Online
- Delete or rearrange questions
- View text and details for highlighted question (click "Show Question")
- Expand your list by clicking Grid View or Drag 'n Drop
- Start over by clicking New List

#### Grid View

<table>
<thead>
<tr>
<th>#</th>
<th>Actions</th>
<th>Question ID</th>
<th>Description</th>
<th>Grade</th>
<th>Year</th>
<th>Block</th>
<th>Difficulty</th>
<th>Type</th>
<th>Content Classification</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td></td>
<td>2006-4M10 #7</td>
<td>Identify the value of a point on a number line</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>MC</td>
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<tr>
<td>7</td>
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<td>2006-4M10 #8</td>
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<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Algebra</td>
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<tr>
<td>9</td>
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<td>2006-4M10 #9</td>
<td>Identify figure with greatest area on a grid</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>2006-4M10 #10</td>
<td>Identify shape of shaded region</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Easy</td>
<td>MC</td>
<td>Geometry</td>
<td>Yes</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>2006-4M10 #12</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Medium</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>2006-4M10 #13</td>
<td>Estimate length of object by indirect measurement</td>
<td>4</td>
<td>2009</td>
<td>4M10</td>
<td>Hard</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Preview Items

The image shows a web interface for Preview Items. The interface is for a mathematics grade 4 list. It includes a table with columns for Actions, Question ID, Description, Grade, Year, Block, Difficulty, Type, Content Classification, and Online. The table has 12 rows, each representing a different question. The interface includes options for Grid View, Drag 'n Drop View, View List, and Help. The table also has links for Save List, Save List As New List, and Share.
Preview Items

Additional materials required for certain questions may be accessed via download.

**Item List:** Mathematics, Grade 4  
**Questions:** 12  
**Estimated Completion Time:** 12 Minutes

<table>
<thead>
<tr>
<th>1.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>301</td>
<td></td>
</tr>
<tr>
<td>=73</td>
<td></td>
</tr>
</tbody>
</table>

A. 226  
B. 235  
C. 236  
D. 374

Question ID: 2009-4M10 → 1 M137201
Save List before Publishing
Save List

Save

Saving list as a New Item List will create a new list with the name you have entered. See all Saved Lists under your account.

New Item List:
Mathematics, Grade 4

Save  Close
Publish the Items Online
Publish the Items

Provide the following information for online administration of a test comprised of the selected item list. Publish test and download test material.

**Item List:** Mathematics, Grade 4  **Questions:** 12  **Estimated Completion Time:** 12 Minutes

*Required fields

**Test Name:**
NAEP Questions - MC - G4

**Roster:** You must either select an existing roster or indicate how many total test-takers you want to publish your test for.

--Unassigned--  **Total Test Takers:** 8

**Due Date:** Test will not expire if no due date is selected

**Comparison Results:**
National public

**Test Format:**
- Allow test taker to see results after test completion
- Hide all test results from test taker
- Allow test taker to retake test

**Email Options:**
- Notify me when each test is complete
- Notify me when all tests are complete
- Do not notify me

[Publish Test]  [Cancel]
Test Tickets

Go to http://nces.ed.gov/NationsReportCard/nqt/Link/Test/

Test ID: 4YF-875
Enter this TestID on the test entry page.

Test ticket for student 3QM-563
Test: NAEP - MC - G4
12 Questions
12 Minutes
Due Date: Available now

Go to http://nces.ed.gov/NationsReportCard/nqt/Link/Test/

Test ticket for student IQX-936
Test: NAEP - MC - G4
Taking the test...

http://nces.ed.gov/nationsreportcard/nqt
Taking the test....
Test is finished!

3QM-563
You have completed
NAEP - MC - G4
Correct Answers: 12 out of 12 = 100%
Account Options
Account Options
View Saved Lists
Expanded View of Lists

<table>
<thead>
<tr>
<th>Actions</th>
<th>List Name</th>
<th>Number of Items</th>
<th>Date Created</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics, Grade 8</td>
<td>12</td>
<td>10/14/2014</td>
</tr>
<tr>
<td></td>
<td>Administered Test</td>
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<td></td>
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<tr>
<td></td>
<td>Admin Roster</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test Takers</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Completed</td>
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<td></td>
<td>Status</td>
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<td></td>
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<td></td>
<td>Due Date</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Results</td>
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</tr>
<tr>
<td></td>
<td>This list has no test adminstrations.</td>
<td></td>
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<tr>
<td></td>
<td>Mathematics, Grade 4</td>
<td>12</td>
<td>10/14/2014</td>
</tr>
<tr>
<td></td>
<td>Administered Test</td>
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<td>Admin Roster</td>
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<td>Test Takers</td>
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<td>Due Date</td>
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<td></td>
<td>Results</td>
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<td></td>
<td>Results</td>
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</table>
Email Notification

Test Name: NAEP - MC - G4

As of 10-22-2014 all students have completed their tests.
Test Results – Comparison Report

<table>
<thead>
<tr>
<th>Item #</th>
<th>Question Description</th>
<th>NAEP Percent Correct</th>
<th>Percent Correct</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>Subtract two-digit number from three-digit number</td>
<td>73</td>
<td>100</td>
</tr>
<tr>
<td>2</td>
<td>Find value of unknown in number sentences</td>
<td>93</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>Solve a story problem involving quarts and cups</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>4</td>
<td>Determine probability of a particular event</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>5</td>
<td>Estimate a distance based on time</td>
<td>75</td>
<td>80</td>
</tr>
<tr>
<td>6</td>
<td>Identify the value of a point on a number line</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>7</td>
<td>Determine missing shapes in a pattern</td>
<td>88</td>
<td>80</td>
</tr>
<tr>
<td>8</td>
<td>Identify figure with greatest area on a grid</td>
<td>96</td>
<td>100</td>
</tr>
<tr>
<td>9</td>
<td>Identify shape of shaded region</td>
<td>91</td>
<td>89</td>
</tr>
<tr>
<td>10</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>58</td>
<td>78</td>
</tr>
<tr>
<td>11</td>
<td>Estimate length of object by indirect measurement</td>
<td>38</td>
<td>78</td>
</tr>
<tr>
<td>12</td>
<td>Identify fraction closest to given value</td>
<td>28</td>
<td>89</td>
</tr>
</tbody>
</table>

Total: 91

NOTE: Detail may not sum to totals because of rounding. Some apparent differences between estimates may not be statistically significant.

Test Results – Student Summary Report

Summary Report
Administration: NAEP - MC - G4
Roster: 1093 Students
Due Date: No due date

<table>
<thead>
<tr>
<th>Test Taker</th>
<th># of Attempts</th>
<th>Date Completed</th>
<th>Percent Correct</th>
</tr>
</thead>
<tbody>
<tr>
<td>3QM-503</td>
<td>1</td>
<td>Oct 14 2014 5:02PM</td>
<td>100</td>
</tr>
<tr>
<td>IQX-938</td>
<td>1</td>
<td>Oct 19 2014 8:58PM</td>
<td>75</td>
</tr>
<tr>
<td>MAS-870</td>
<td>1</td>
<td>Oct 15 2014 7:48PM</td>
<td>100</td>
</tr>
<tr>
<td>FYF-407</td>
<td>1</td>
<td>Oct 18 2014 12:48PM</td>
<td>100</td>
</tr>
<tr>
<td>RAV-314</td>
<td>1</td>
<td>Oct 15 2014 9:28PM</td>
<td>92</td>
</tr>
<tr>
<td>SJ8-953</td>
<td>1</td>
<td>Oct 22 2014 12:01PM</td>
<td>87</td>
</tr>
<tr>
<td>THI-302</td>
<td>1</td>
<td>Oct 17 2014 5:43PM</td>
<td>83</td>
</tr>
<tr>
<td>TLL-688</td>
<td>1</td>
<td>Oct 16 2014 1:14PM</td>
<td>100</td>
</tr>
<tr>
<td>ZFO-859</td>
<td>1</td>
<td>Oct 20 2014 7:58AM</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>91</strong></td>
</tr>
</tbody>
</table>
# Test Results – Student Item Report

## Item List: Mathematics, Grade 4

### Test Administration: NAEP - MC - G4

Select report contents. Select report to view, print or download results. Only Item lists that have test administrations will appear in Item List dropdown. Only test administrations that have test results will appear in the Test Admins dropdown.

Select Report: Student Item

**Test Taker:** IQX-G08

---

### Student Item Report

**Adminstration:** NAEP - MC - G4  
**Roster:** M393 Students  
**Due Date:** No due date  
**Test Taker:** IQX-936

<table>
<thead>
<tr>
<th>Item #</th>
<th>Question Description</th>
<th>Test Taker Response</th>
<th>Correct Response</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Subtract two-digit number from three-digit number</td>
<td>A</td>
<td>A</td>
<td>✔️</td>
</tr>
<tr>
<td>2</td>
<td>Find value of unknown in number sentences</td>
<td>B</td>
<td>B</td>
<td>✔️</td>
</tr>
<tr>
<td>3</td>
<td>Solve a story problem involving quarts and cups</td>
<td>B</td>
<td>D</td>
<td>✔️</td>
</tr>
<tr>
<td>4</td>
<td>Determine probability of a particular event</td>
<td>D</td>
<td>D</td>
<td>✔️</td>
</tr>
<tr>
<td>5</td>
<td>Estimate a distance based on time</td>
<td>C</td>
<td>B</td>
<td>✔️</td>
</tr>
<tr>
<td>6</td>
<td>Identify the value of a point on a number line</td>
<td>D</td>
<td>D</td>
<td>✔️</td>
</tr>
<tr>
<td>7</td>
<td>Determine missing shapes in a pattern</td>
<td>C</td>
<td>C</td>
<td>✔️</td>
</tr>
<tr>
<td>8</td>
<td>Identify figure with greatest area on a grid</td>
<td>B</td>
<td>B</td>
<td>✔️</td>
</tr>
<tr>
<td>9</td>
<td>Identify shape of shaded region</td>
<td>B</td>
<td>B</td>
<td>✔️</td>
</tr>
<tr>
<td>10</td>
<td>Divide a three-digit number by a one-digit number</td>
<td>B</td>
<td>B</td>
<td>✔️</td>
</tr>
<tr>
<td>11</td>
<td>Estimate length of object by indirect measurement</td>
<td>A</td>
<td>A</td>
<td>✔️</td>
</tr>
<tr>
<td>12</td>
<td>Identify fraction closest to given value</td>
<td>B</td>
<td>A</td>
<td>✗️</td>
</tr>
</tbody>
</table>
Add New Roster

<table>
<thead>
<tr>
<th>Actions</th>
<th>Roster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>No rosters have been created</td>
<td></td>
</tr>
</tbody>
</table>
Create Roster

Student Roster

Enter a name for your Roster. Enter the number of students you would like to add to your Roster. Click the Save button.

- Roster Name: My class
- Number of Students to Add: 18

Cancel  Save
View Existing Roster

![NAEP Questions Tool](image)

**Manage Rosters**

Add a new roster or select student ID to view individual student results.

<table>
<thead>
<tr>
<th>Actions</th>
<th>Roster Name</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Add New Roster" /></td>
<td>My class</td>
</tr>
</tbody>
</table>
Edit Roster

Student Roster

Change the name of your Roster and/or add more students to your Roster. Click the Save button.

Roster Name: My class
Number of Students to Add: 

[Options]

Save

Student ID
ATD-658
AKI-599
3IV-314
TKC-334
3T9-190
W56-532
W9K-889
WLU-396
KLY-198

[Options]
### Saved Lists

Expanding item list to view administered tests, rosters, and results. View or delete lists, publish online tests, and download all reports related to them.

<table>
<thead>
<tr>
<th>Actions</th>
<th>List Name</th>
<th>Number of Items</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mathematics1, Grade 8</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Test 1 Meth</td>
<td>8</td>
</tr>
</tbody>
</table>

### NAEP Questions Tool

- **Analyze Data**
- **Explore Questions**
- **State Comparisons**
- **State Profiles**
- **District Profiles**

**Contact:** walcott@iupac.edu
## Open Existing Test for Publication

The image shows the NAEP Questions Tool webpage with a list of questions for the Mathematics 8th Grade test. The questions are presented in a grid view, with columns for Actions, Question ID, Description, Grade, Year, Block, Difficulty, Type, Content Classification, and Online. The questions and their details are as follows:

<table>
<thead>
<tr>
<th>#</th>
<th>Actions</th>
<th>Question ID</th>
<th>Description</th>
<th>Grade</th>
<th>Year</th>
<th>Block</th>
<th>Difficulty</th>
<th>Type</th>
<th>Content Classification</th>
<th>Online</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #1</td>
<td>Convert a written number to decimal form</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Easy</td>
<td>MC</td>
<td>Number properties and operations</td>
<td>Yes</td>
</tr>
<tr>
<td>2</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #2</td>
<td>Find length of a rectangle given perimeter and width</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Hard</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>3</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #3</td>
<td>Identify an equivalent algebraic expression</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Medium</td>
<td>MC</td>
<td>Algebra</td>
<td>Yes</td>
</tr>
<tr>
<td>4</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #4</td>
<td>Calculate temperature increase on a thermometer</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Easy</td>
<td>MC</td>
<td>Measurement</td>
<td>Yes</td>
</tr>
<tr>
<td>5</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #5</td>
<td>Determine median price for a gallon of gasoline</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Medium</td>
<td>MC</td>
<td>Data analysis and Probability</td>
<td>Yes</td>
</tr>
<tr>
<td>6</td>
<td>🗑️ 🎨</td>
<td>2005-BM12 #6</td>
<td>Read and interpret a pie chart</td>
<td>8</td>
<td>2005</td>
<td>BM12</td>
<td>Easy</td>
<td>MC</td>
<td>Data analysis and Probability</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Publish Test for Roster

**Item List:** Mathematics1, Grade 8  
**Questions:** 18  
**Estimated Completion Time:** 19 Minutes

*Required fields

**Test Name:**  
November Quiz

**Roster:** You must either select an existing roster or indicate how many total test-takers you want to publish your test for.

- My class  
- **Total Test Takers:** 18

**Due Date:**  
Test will not expire if no due date is selected

**Comparison Results:**  
Indiana

**Test Format:**
- Allow test taker to see results after test completion
- Hide all test results from test taker
- Allow test taker to retake test

**Email Options:**
- Notify me when each test is complete
- Notify me when all tests are complete
- Do not notify me

[Publish Test]  [Cancel]
Publish Test for Roster

Provide the following information for online administration of a test comprised of the selected item list: Publish test and download test materials.

**Item List: Mathematics1, Grade 8**  
**Questions:** 18  
**Estimated Completion Time:** 19 Minutes

*Required fields*

**Test Name:**

**Roster:** You must either select an existing roster or indicate how many total test-takers you want to publish your test for.

---Unassigned---  
**Total Test Takers:**

**Due Date:**

Test will not expire if no due date is selected

**Comparison Results:**

---Select a Jurisdiction---

**Test Format:**

- [ ] Allow test taker to see results after test completion  
- [ ] Hide all test results from test taker  
- [ ] Allow test taker to retake test

**Email Options:**

- [ ] Notify me when each test is complete  
- [x] Notify me when all tests are complete  
- [ ] Do not notify me

[Publish Test] [Cancel]

Tickets by Roster

Print the following test tickets for distribution to each test taker:

**Test Ticket**

**Test ID: KAC-879**
Enter this TestID on the test entry page.


- Test ticket for student 05B-785
- Test: **November Quiz**
- 18 Questions
- 19 Minutes
- **Due Date:** Available now

---

**Test Ticket**


- Test ticket for student 3IV-314
- Test: **November Quiz**
Roster Test Tickets

Print the following test tickets for distribution to each test taker.

Go to http://nces.ed.gov/NationsReportCard/nqt/Link/Test/

Test ID: KAC-879
Enter this TestID on the test entry page.

Test ticket for student 05B-785

Test: November Quiz
18 Questions
19 Minutes
Due Date: Available now
Manage Rosters
View Student Data (Roster)
### Student Results (Roster)

![Student Profile](image)

**Roster Name:** RTI  
**Student ID:** 64V-154

<table>
<thead>
<tr>
<th>Admin Test Name</th>
<th>Percent Correct</th>
<th>Date Completed</th>
</tr>
</thead>
<tbody>
<tr>
<td>November RTI</td>
<td>75</td>
<td>11/14/2014</td>
</tr>
<tr>
<td>RTI Quiz November</td>
<td>Not taken</td>
<td>Not taken</td>
</tr>
<tr>
<td>RTI Test November</td>
<td>Not taken</td>
<td>Not taken</td>
</tr>
<tr>
<td>Total</td>
<td>75</td>
<td></td>
</tr>
</tbody>
</table>
Additional Tools
Kids Zone

Welcome to the NCES Kids’ Zone

This Day in History

14 November
In 1969, Apollo 12, the second manned lunar expedition, was launched.

Mind Benders

As I was going to St. Ives, I met a man with seven wives. Each wife had seven sacks, each sack had seven cats, each cat had seven kittens. Kats, cats, sacks and wives. How many were going to St. Ives?

Get Answer!

Student Poll

Do you study while watching TV?

☑ Yes
☐ No
☐ Not Sure

Vote View results

Suggestions? | Archives

DID YOU KNOW?

Public school students in 28 states scored higher than their peers in the nation; students in 15 states and the District of Columbia scored lower than their peers nationally. The interactive map provides details. (more info)

THE WORD OF THE DAY

Panglossian - (adj.) Naively or blindly optimistic. The word alludes to a character from Voltaire’s play Candide named Pangloss.

SEEKING YOUR SUGGESTIONS

Calling All Kids! We would like to hear from you to find out what other types of activities you would like to see on the NCES Kids’ Zone! Please send your comments or suggestions to kidszone@ed.gov

Data Snapshot

Problem Solving skills of 15-Year-Olds, 2012

US
OECD

The U.S. average score on PISA 2012 Problem Solving was 500, which was higher than the OECD-PISA average of 500. SOURCE: Key Findings from PISA 2012 – Problem Solving United States
Thank you!

These slides and additional publications from the *What Mathematics Do Students Know Project* are available at http://ceep.indiana.edu/ImplicationsFromNAEP/ (or just Google “What Mathematics Do Students Know”)

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