Alabama Reading and Mathematics Test (ARMT)

How to Mark Answer Document for Gridded Response Items and Open-Ended Items

Alabama State Department of Education
Student Assessment
How to Mark Open-Ended Items
Mathematics Sample Question

1. Brandon and his father went on a taxi ride on a visit to Chicago. The taxi charged $4.00 plus $1.00 for each ¼ mile. If the taxi cost $10.00, how far did they travel?

Write your response in the answer document.

\[
\begin{align*}
\text{\$10.00} & \text{ taxi cost} \\
\text{\$4.00} & \text{ charge} \\
\text{\$6.00} & \text{ left} \\
\frac{1}{4} \text{ mile} & = \text{ \$1.00} \\
\frac{1}{2} \text{ mile} & = \text{ \$1.00} \times 2 = \text{ \$2.00} \\
1 \text{ mile} & = \text{ \$1.00} \times 4 = \text{ \$4.00} \\
\text{\$2.00} & \text{ ½ mile} \\
\text{\$4.00} & \text{ 1 mile} \\
\text{\$6.00} & \text{ 1½ miles} \\
\text{for travel} & = 1\frac{1}{2} \text{ miles}
\end{align*}
\]
Parts of a Response Grid- Grade 4

This is an example of a response grid for Grade 4. All of the response grids for this grade will have the parts indicated.

Directions:

1. Work the problem and find an answer.
2. Write your answer in the answer boxes of the grid. Be sure to:
   • RIGHT JUSTIFY your answer;
   • Write the dollar sign or decimal point in the answer box if it is part of the answer.
1. Answer: $32.58
   See how the answer is gridded below.

2. Answer: 316
   See how the answer is gridded below.

3. Answer: 1.48
   See how the answer is gridded below.
1. Jermaine has three dollars in paper money. He has twenty-two cents in coins.

How much money does Jermaine have altogether?

Mark your answer in the answer grid.
ARMT Grade 4 Gridded Sample

1. Samuel’s keyboard is 45.6 centimeters wide.

What is 45.6 rounded to the nearer ten?

Mark your answer in the answer grid.
Parts of a Response Grid- Grade 5

This is an example of a response grid for Grade 5. All of the response grids for this grade will have the parts indicated.

Directions:

1. Work the problem and find an answer.
2. Write your answer in the answer boxes of the grid. Be sure to:
   - RIGHT JUSTIFY your answer;
   - Write the decimal point, dollar sign or fraction bar in the answer box if it is part of the answer;
   - Skip a space between a whole number and a fraction if the answer is a mixed fraction.
1. Answer: $\frac{23}{20}$
   See how the answer is gridded below.

2. Answer: $1 \frac{3}{20}$
   See how the answer is gridded below.

3. Answer: 1.5
   See how the answer is gridded below.
1. Dana sold 29 purses for a total of $928, including tax. Each purse was sold for an equal amount.

What was the cost of each purse?

Mark your answer in the answer grid.
3. \[ \frac{2}{9} + \frac{2}{6} = \square \]

Mark your answer in the answer grid.
Parts of a Response Grid- Grade 6

This is an example of a response grid for Grade 6. All of the response grids for this grade will have the parts indicated.

Directions:

1. Work the problem and find an answer.
2. Write your answer in the answer boxes of the grid. Be sure to:
   - RIGHT JUSTIFY your answer;
   - Write the dollar sign, decimal point, or percent sign in the answer box if it is part of the answer;
How to Mark Gridded-Response Items
Mathematics Sample Questions
Grade 6

1. Answer: 579
   See how the answer is gridded below.

2. Answer: 35.93
   See how the answer is gridded below.

3. Answer: $19,851.21
   See how the answer is gridded below.
2. The line graph below displays the amount of flour needed in a muffin recipe.

Flour to Make Muffins

Number of Muffins Made

<table>
<thead>
<tr>
<th>Number of Cups of Flour</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
</tr>
</thead>
</table>

Based on this graph, what is the number of cups of flour needed to make 40 muffins?

Mark your answer in the answer grid.
1. Anna went to the store to buy a new dress. The dress she chose was 30% off the original price.

What was the original price of the dress that was marked down $13.95?

Mark your answer in the answer grid.
Parts of a Response Grid - Grade 7

This is an example of a response grid for Grade 7. All of the response grids for this grade will have the parts indicated.

Directions:

1. Work the problem and find an answer.
2. Write your answer in the answer boxes of the grid. Be sure to:
   - RIGHT JUSTIFY your answer;
   - Write the negative sign, decimal point, percent sign, dollar sign, or fraction bar in the answer box if it is part of the answer;
   - Skip a space between a whole number and a fraction if the answer is a mixed fraction.
How to Mark Gridded-Response Items
Mathematics Sample Questions
Grade 7

1. Answer: \( \frac{6}{49} \)
   See how the answer is gridded below.

2. Answer: 0.79
   See how the answer is gridded below.

3. Answer: \(-909\)
   See how the answer is gridded below.

4. Answer: 41.67
   See how the answer is gridded below.
2. \[ 57 \cdot (-7) = \square \]

Mark your answer in the answer grid.
ARMT Grade 7 Gridded Sample

The circle shown below has a diameter of 36 centimeters.

3. What is the circumference, in centimeters, of the circle?

Mark your answer in the answer grid.
Parts of a Response Grid- Grade 8

This is an example of a response grid for Grade 8. All of the response grids for this grade will have the parts indicated.

Directions:

1. Work the problem and find an answer.
2. Write your answer in the answer boxes of the grid. Be sure to:
   - RIGHT JUSTIFY your answer;
   - Write the negative sign, decimal point, percent sign, dollar sign, or fraction bar in the answer box if it is part of the answer;
   - Skip a space between a whole number and a fraction if the answer is a mixed fraction.
1. Answer: $-82$
   See how the answer is gridded below.

2. Answer: $\$31.16$
   See how the answer is gridded below.

3. Answer: 8.6
   See how the answer is gridded below.

4. Answer: $15 \frac{2}{3}$
   See how the answer is gridded below.
4. A company that rents cars will rent a small car for $30 per day. Another company will rent the same type of car for $20 per day plus $0.08 for each mile driven.

What is the number of miles at which the rental fees will be the same?

Mark your answer in the answer grid.
5. A group of 5 adults and 4 children went to the movies. The price for each movie ticket was a whole number dollar amount with tax included. Each adult ticket cost more than each child ticket. A total of $50 was paid for the tickets.

What is the cost of a child’s ticket?

Mark your answer in the answer grid.