Release of Spring 2021
RICAS Test Items
from the
Grade 7 Mathematics
Paper-Based Test

June 2021
Rhode Island Department of Education
Overview of Grade 7 Mathematics Test

The spring 2021 grade 7 Mathematics test was a next-generation assessment that was administered in two primary formats: a computer-based version and a paper-based version. The vast majority of students took the computer-based test. The paper-based test was offered as an accommodation for students with disabilities who are unable to use a computer, as well as for English learners who are new to the country and are unfamiliar with technology.

Most of the operational items on the grade 7 Mathematics test were the same, regardless of whether a student took the computer-based version or the paper-based version. In places where a technology-enhanced item was used on the computer-based test, an adapted version of the item was created for use on the paper test. These adapted paper items were multiple-choice, multiple-select, or short-answer items that tested the same Mathematics content and assessed the same standard as the technology-enhanced item.

This document displays released items from the paper-based test. Released items from the computer-based test are available on the RICAS Resource Center website at ricas.pearsonsupport.com/released-items.

The Scoring Guides can be found at www.doe.mass.edu/mcas/student/. They provide the released constructed-response questions, a unique scoring guide for each question, and samples of student work at each score point.

Test Sessions and Content Overview

The grade 7 Mathematics test was made up of two separate test sessions. Each session included selected-response, short-answer, and constructed-response questions. On the paper-based test, the selected-response questions were multiple-choice items and multiple-select items, in which students select the correct answer(s) from among several answer options.

Standards and Reporting Categories

The grade 7 Mathematics test was based on standards in the five domains for grade 7 in the Massachusetts Curriculum Framework for Mathematics (2017). The five domains are listed below.

- Ratios and Proportional Relationships
- The Number System
- Expressions and Equations
- Geometry
- Statistics and Probability


Mathematics test results are reported under five MCAS reporting categories, which are identical to the five framework domains listed above.

The tables at the conclusion of this document provide the following information about each released and unreleased operational item: reporting category, standard(s) covered, item type, and item description. The correct answers for released selected-response and short-answer questions are also displayed in the released item table.

Reference Materials and Tools

Each student taking the paper-based version of the grade 7 Mathematics test was provided with a plastic ruler and a grade 7 Mathematics Reference Sheet. A copy of the reference sheet follows the final question in this document. An image of the ruler is not reproduced in the document.

During Session 2, each student had sole access to a calculator. Calculator use was not allowed during Session 1.

During both Mathematics test sessions, the use of bilingual word-to-word dictionaries was allowed for current and former English learner students only. No other reference tools or materials were allowed.
Grade 7 Mathematics
SESSION 1

This session contains 9 questions.

You may use your reference sheet during this session. You may not use a calculator during this session.

Directions
Read each question carefully and then answer it as well as you can. You must record all answers in this Test & Answer Booklet.

For some questions, you will mark your answers by filling in the circles in your Test & Answer Booklet. Make sure you darken the circles completely. Do not make any marks outside of the circles. If you need to change an answer, be sure to erase your first answer completely.

For other questions, you will need to fill in an answer grid. Directions for completing questions with answer grids are provided on the next page.

If a question asks you to show or explain your work, you must do so to receive full credit. Write your response in the space provided. Only responses written within the provided space will be scored.
Directions for Completing Questions with Answer Grids

1. Work the question and find an answer.

2. Enter your answer in the answer boxes at the top of the answer grid.

3. Print only one number or symbol in each box. Do not leave a blank box in the middle of an answer.

4. Under each answer box, fill in the circle that matches the number or symbol you wrote above. Make a solid mark that completely fills the circle.

5. Do not fill in a circle under an unused answer box.

6. Fractions cannot be entered into an answer grid and will not be scored. Enter fractions as decimals.

7. If you need to change an answer, be sure to erase your first answer completely.

8. See below for examples of how to correctly complete an answer grid.

EXAMPLES
Two friends shared a pie.

- One friend ate \( \frac{2}{5} \) of the whole pie.
- The other friend ate 40\% of the whole pie.

In which fraction model does the shaded portion show the fraction of the pie that was not eaten?
This question has four parts. Be sure to label each part of your response.

A student is practicing multiplication and division.

A. The student writes these numbers on a sheet of paper.

\[ -35, \frac{5}{7} \]

The student multiplies the two numbers.

What is the value of \(-35 \cdot \left( \frac{5}{7} \right)\)?

B. The student writes these numbers on another sheet of paper.

\[ -35, -\frac{5}{7} \]

The student multiplies the two numbers.

What is the value of \((-35) \cdot \left( -\frac{5}{7} \right)\)?

C. The student then divides the two numbers used in Part A.

What is the value of \((-35) \div \left( \frac{5}{7} \right)\)?

D. Determine whether your answer in Part C is a rational number. Explain your reasoning.

Write your answers on the next page.
3. Which of the following is equivalent to this expression?

$$3(x - 1)$$

- A. $$3 + x + 3 - 1$$
- B. $$3 + x - 1$$
- C. $$3x - 3$$
- D. $$3x - 1$$

4. A recipe requires only blueberries and strawberries. This list shows the amounts required for $$\frac{1}{4}$$ of the whole recipe:

- $$\frac{1}{2}$$ cup blueberries
- $$\frac{2}{5}$$ cup strawberries

What is the number of cups of blueberries and the number of cups of strawberries required for the whole recipe?

- A. $$\frac{1}{8}$$ cup of blueberries and $$\frac{1}{10}$$ cup of strawberries
- B. $$\frac{1}{8}$$ cup of blueberries and $$1\frac{3}{5}$$ cups of strawberries
- C. 2 cups of blueberries and $$\frac{1}{10}$$ cup of strawberries
- D. 2 cups of blueberries and $$1\frac{3}{5}$$ cups of strawberries
Which of the following is not equivalent to this expression?

\[2m + 10m + 14 + 3\]

A. \[m + 12m + 8 + 9\]
B. \[2m + 10 + 10m + 7\]
C. \[6m + 6m - 1 + 18\]
D. \[15m + 15 - 3m + 2\]
This table shows the relationship between \( h \), the number of hours a car is parked at a parking meter, and \( q \), the number of quarters it costs to park at the parking meter.

<table>
<thead>
<tr>
<th>Number of Hours ((h))</th>
<th>Number of Quarters ((q))</th>
</tr>
</thead>
<tbody>
<tr>
<td>(\frac{1}{2})</td>
<td>1</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>(1\frac{1}{2})</td>
<td>3</td>
</tr>
<tr>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

Which of the following equations best models the relationship between \( h \) and \( q \)?

A. \( q = h \)
B. \( q = 2h \)
C. \( q = h + 1 \)
D. \( q = h + 2 \)
A parking lot in the shape of a parallelogram has a length of 300 meters and a width of 150 meters. A scale drawing of the parking lot has a length of 10 centimeters and a width of 5 centimeters, as shown.

Which of the following is the scale used in the drawing?

A 1 centimeter = 10 meters
B 1 centimeter = 15 meters
C 1 centimeter = 30 meters
D 1 centimeter = 60 meters
Which of the following expressions represents the distance, in units, between the two points plotted on the number line?

\[ \text{Distance} = |3 + (-4)| \]

Consider this equation.

\[ \frac{1}{2}(x + 4) = -8 \]

What value of \( x \) makes the equation true?

Enter your answer in the answer boxes at the top of the answer grid and completely fill the matching circles.
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7. If you need to change an answer, be sure to erase your first answer completely.
8. See below for examples of how to correctly complete an answer grid.

EXAMPLES

\[
\begin{array}{cccc}
\text{-} & 1 & 4 \\
\circ & & & \\
\& & & & \\
\& & & & \\
\& & & & \\
\& & & & \\
\& & & & \\
\& & & & \\
\end{array}
\quad
\begin{array}{cccc}
4 & 8 & 3 & 1 & 6 \\
\circ & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\end{array}
\quad
\begin{array}{cccc}
6 & 5 & . & 3 \\
\circ & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\& & & & & \\
\end{array}
\quad
\begin{array}{cccc}
9 & . & 5 & 5 & 5 & 5 \\
\circ & & & & & \\
\& & & & & & \\
\& & & & & & \\
\& & & & & & \\
\& & & & & & \\
\& & & & & & \\
\& & & & & & \\
\end{array}
\end{array}
\]
Jacinta has 2 blue marbles, 4 red marbles, and 5 green marbles in a bag. All the marbles are the same size. She will select one marble from the bag without looking.

What is the probability that Jacinta will select a green marble?

- **A** $\frac{1}{3}$
- **B** $\frac{5}{6}$
- **C** $\frac{5}{11}$
- **D** $\frac{6}{11}$

A watermelon that weighed 12 pounds cost $5.76. What was the cost per ounce of the watermelon?

- **A** $0.48$
- **B** $0.36$
- **C** $0.03$
- **D** $0.02$
A grocery store manager wants to conduct a survey to determine the average number of items bought by shoppers in the express checkout lane weekly between 5:00 p.m. and 7:00 p.m.

Which of the following plans would obtain a random sample that best represents the population of shoppers during this time?

A. Count the number of items bought by each shopper in the express checkout lane on Monday night between 5:00 p.m. and 7:00 p.m.

B. Count the number of items bought by each shopper in the express checkout lane between 5:00 p.m. and 5:10 p.m. each evening for a week.

C. Choose a day of the week at random, and count the number of items bought by each shopper in the express checkout lane between 5:00 p.m. and 7:00 p.m on that day.

D. Choose eight random 10-minute intervals between 5:00 p.m. and 7:00 p.m. during a week, and count the number of items bought by each shopper in the express checkout lane during the intervals.
A math teacher has a number cube with faces numbered 1 through 6. He will roll the number cube 400 times.

Which of the following ranges contains the best prediction for the number of times the number cube will land with a 1 or a 4 on the top face?

A 30–35  
B 65–70  
C 130–135  
D 265–270
These lists show the ages of attendees in a yoga class and a dance class.

Yoga: 18, 31, 17, 44, 20, 33, 36
Dance: 20, 47, 23, 38, 26, 42, 30

Which statements about the attendees in the two classes are true?

Select the two correct answers.

A. The median age of the attendees in the yoga class is greater than the median age of the attendees in the dance class.
B. The median age of the attendees in the yoga class is less than the median age of the attendees in the dance class.
C. The median age of the attendees in the yoga class is the same as the median age of the attendees in the dance class.
D. The range of ages of the attendees in the yoga class is greater than the range of ages of the attendees in the dance class.
E. The range of ages of the attendees in the yoga class is less than the range of ages of the attendees in the dance class.
F. The range of ages of the attendees in the yoga class is the same as the range of ages of the attendees in the dance class.
A playground has two sandboxes. Each sandbox is in the shape of a right prism.

A. The first sandbox has a square base with a side length of 8 feet. What is the area, in square feet, of the base of the first sandbox? Show or explain how you got your answer.

B. The groundskeeper filled the first sandbox with sand to a height of 6 inches. What is the volume, in cubic feet, of the sand that was used to fill the first sandbox to a height of 6 inches? Show or explain how you got your answer.

C. After filling the first sandbox to a height of 6 inches, the groundskeeper had 24 cubic feet of sand left over. She used all the leftover sand to fill the second sandbox.

- The second sandbox has a base in the shape of a rectangle.
- The base of the second sandbox has a perimeter that is less than 35 feet.
- The groundskeeper filled the second sandbox to a height of 6 inches.

What could be the length and width, in feet, of the second sandbox? Show or explain how you got your answers.
Some students are playing a game. They roll a number cube and spin the arrow on a spinner on each turn.

- The number cube has sides numbered 1 through 6.
- The spinner has 3 equal-sized sections colored red (R), yellow (Y), and blue (B).

This tree diagram shows the sample space for the possible outcomes of rolling a number cube one time and then spinning the arrow on the spinner once.

What is the probability that, on a student’s turn, the number cube will land with an even number on the top face and the arrow on the spinner will stop on the blue (B) section?

A $\frac{1}{3}$

B $\frac{3}{6}$

C $\frac{3}{18}$

D $\frac{9}{16}$
This question has two parts.

A baker sells boxes of cookies.

This table shows the total cost, in dollars, for different numbers of boxes of cookies.

<table>
<thead>
<tr>
<th>Number of Boxes, $n$</th>
<th>Total Cost, $c$ (dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>10.50</td>
</tr>
<tr>
<td>4</td>
<td>14.00</td>
</tr>
<tr>
<td>5</td>
<td>17.50</td>
</tr>
<tr>
<td>9</td>
<td>31.50</td>
</tr>
</tbody>
</table>

Part A

Based on the table, what is the total cost, in dollars, of 7 boxes of cookies?

A $20.50
B $21.00
C $24.50
D $28.00

Part B

Which equation can be used to find $c$, the total cost in dollars of $n$ boxes of cookies?

A $c = 3.50n$
B $c = 7.00n$
C $c = 10.50n$
D $c = 21.00n$
Sharon has a patio in the shape of a rectangle.

- The length of the patio is \( l \) feet.
- The width of the patio is \( w \) feet.

Sharon plans to expand the patio by increasing the length by 50% and increasing the width by 20%.

Which of the following expressions could be used to find the area, in square feet, of the expanded patio?

A) \((1.5l) \times (1.2w)\)

B) \((l + 0.5) \times (w + 0.2)\)

C) \((l \times w) + (0.5 + 0.2)\)

D) \((0.5l) \times (0.2w)\)
The population of a city is 10,000 people. A researcher wants to estimate how many people in the city own a car. The researcher surveys a random sample of 240 people and records these results.

- 180 people own a car.
- 60 people do not own a car.

Based on the sample results, which bar graph shows the best estimates, rounded to the nearest 500, of the number of people in the city's population that own a car and the number that do not own a car?
Paloma opened a savings account with a deposit of $750. She earns 2% simple interest per year on the account.

What will be the total amount of money, in dollars, in Paloma’s account after 1 year if there are no other deposits or withdrawals?

Enter your answer in the answer boxes at the top of the answer grid and completely fill the matching circles.
CONVERSIONS

1 cup = 8 fluid ounces
1 pint = 2 cups
1 quart = 2 pints
1 gallon = 4 quarts
1 gallon ≈ 3.785 liters
1 liter = 0.264 gallon
1 liter = 1000 cubic centimeters

1 inch = 2.54 centimeters
1 meter ≈ 39.37 inches
1 mile = 5280 feet
1 mile = 1760 yards
1 mile ≈ 1.609 kilometers
1 kilometer ≈ 0.62 mile
1 pound = 16 ounces
1 pound ≈ 0.454 kilogram
1 kilogram ≈ 2.2 pounds
1 ton = 2000 pounds

AREA (A) FORMULAS

square . . . . . . A = s^2
rectangle . . . A = bh
OR
A = lw
parallelogram . . A = bh
triangle . . . . . A = \frac{1}{2} bh
trapezoid . . . . A = \frac{1}{2} h(b_1 + b_2)
circle . . . . . . . A = \pi r^2

VOLUME (V) FORMULAS

cube . . . . . . . . . . . V = s^3
(s = length of an edge)
right prism . . . . . . . . V = Bh

TOTAL SURFACE AREA (SA) FORMULAS

right rectangular prism . . . SA = 2(lw) + 2(hw) + 2(lh)

CIRCLE FORMULAS

area . . . . . . . A = \pi r^2
circumference . . C = 2\pi r
OR
C = \pi d
<table>
<thead>
<tr>
<th>PBT Item No.</th>
<th>Page No.</th>
<th>Reporting Category</th>
<th>Standard</th>
<th>Item Type*</th>
<th>Item Description</th>
<th>Correct Answer**</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>Expressions and Equations</td>
<td>7.EE.B.3</td>
<td>SR</td>
<td>Use operations with a fraction and a percentage to solve a real-world problem and determine which fraction model represents the solution.</td>
<td>A</td>
</tr>
<tr>
<td>2</td>
<td>5</td>
<td>The Number System</td>
<td>7.NS.A.2</td>
<td>CR</td>
<td>Use operations with positive and negative rational numbers to solve mathematical problems.</td>
<td>C</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>Expressions and Equations</td>
<td>7.EE.A.1</td>
<td>SR</td>
<td>Apply the distributive property to determine which expression is equivalent to a given expression.</td>
<td>C</td>
</tr>
<tr>
<td>4</td>
<td>7</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.1</td>
<td>SR</td>
<td>Compute two rates associated with given fractional ratios in a real-world problem.</td>
<td>D</td>
</tr>
<tr>
<td>5</td>
<td>8</td>
<td>Expressions and Equations</td>
<td>7.EE.A.1</td>
<td>SR</td>
<td>Apply properties of addition to determine which expression is not equivalent to a given expression.</td>
<td>A</td>
</tr>
<tr>
<td>6</td>
<td>9</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.2</td>
<td>SR</td>
<td>Determine which equation models a proportional relationship shown in a table.</td>
<td>B</td>
</tr>
<tr>
<td>7</td>
<td>10</td>
<td>Geometry</td>
<td>7.G.A.1</td>
<td>SR</td>
<td>Determine the scale used in a given real-world context.</td>
<td>C</td>
</tr>
<tr>
<td>8</td>
<td>11</td>
<td>The Number System</td>
<td>7.NS.A.1</td>
<td>SR</td>
<td>Represent distance on a number line using an absolute value expression.</td>
<td>B</td>
</tr>
<tr>
<td>9</td>
<td>11</td>
<td>Expressions and Equations</td>
<td>7.EE.B.4</td>
<td>SA</td>
<td>Solve an equation of the form $px + q = r$.</td>
<td>–20</td>
</tr>
<tr>
<td>10</td>
<td>14</td>
<td>Statistics and Probability</td>
<td>7.SPC.5</td>
<td>SR</td>
<td>Determine the likelihood of an event in a real-world context.</td>
<td>C</td>
</tr>
<tr>
<td>11</td>
<td>14</td>
<td>The Number System</td>
<td>7.NS.A.3</td>
<td>SR</td>
<td>Solve a multi-step, real-world problem by converting units.</td>
<td>C</td>
</tr>
<tr>
<td>12</td>
<td>15</td>
<td>Statistics and Probability</td>
<td>7.SPA.1</td>
<td>SR</td>
<td>Determine which sampling strategy will produce a valid sample that represents a specific population.</td>
<td>D</td>
</tr>
<tr>
<td>13</td>
<td>16</td>
<td>Statistics and Probability</td>
<td>7.SPC.6</td>
<td>SR</td>
<td>Determine which range of expected probabilities best predicts a random outcome.</td>
<td>C</td>
</tr>
<tr>
<td>14</td>
<td>17</td>
<td>Statistics and Probability</td>
<td>7.SPB.4</td>
<td>SR</td>
<td>Determine which statements compare the medians and ranges of two data sets.</td>
<td>A, F</td>
</tr>
<tr>
<td>16</td>
<td>20</td>
<td>Statistics and Probability</td>
<td>7.SPC.8</td>
<td>SR</td>
<td>Determine the probability of a compound event, given a tree diagram.</td>
<td>C</td>
</tr>
<tr>
<td>17</td>
<td>21</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.2</td>
<td>SR</td>
<td>Use proportional reasoning to solve a real-world problem and determine which equation represents the proportional relationship shown in a table.</td>
<td>C; A</td>
</tr>
<tr>
<td>18</td>
<td>22</td>
<td>Expressions and Equations</td>
<td>7.EE.A.2</td>
<td>SR</td>
<td>Determine which expression can be used to represent a real-world problem involving area.</td>
<td>A</td>
</tr>
<tr>
<td>19</td>
<td>23</td>
<td>Statistics and Probability</td>
<td>7.SPA.2</td>
<td>SR</td>
<td>Use data from a random sample to draw an inference about a population and determine which bar graph represents the inference.</td>
<td>D</td>
</tr>
<tr>
<td>20</td>
<td>24</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.3</td>
<td>SA</td>
<td>Use proportional reasoning to solve a two-step simple interest problem.</td>
<td>765</td>
</tr>
</tbody>
</table>

* Mathematics item types are: selected-response (SR), short-answer (SA), and constructed-response (CR).

**Answers are provided here for selected-response and short-answer items only. Sample responses and scoring guidelines for any constructed-response items will be posted to the Department’s website later this year.
<table>
<thead>
<tr>
<th>Item No.</th>
<th>Reporting Category</th>
<th>Standard</th>
<th>Item Type*</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td>The Number System</td>
<td>7.NS.A.3</td>
<td>SA</td>
<td>Solve a real-world problem involving addition and subtraction with decimals.</td>
</tr>
<tr>
<td>22</td>
<td>Geometry</td>
<td>7.G.B.6</td>
<td>SR</td>
<td>Solve a real-world problem involving the area of a two-dimensional object.</td>
</tr>
<tr>
<td>23</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.3</td>
<td>SR</td>
<td>Use ratio and proportional reasoning to calculate actual distance given a scale on a map.</td>
</tr>
<tr>
<td>24</td>
<td>Expressions and Equations</td>
<td>7.EE.B.3</td>
<td>SR</td>
<td>Determine which equation is equivalent to a given equation.</td>
</tr>
<tr>
<td>25</td>
<td>The Number System</td>
<td>7.NS.A.3</td>
<td>SA</td>
<td>Use operations with positive and negative integers to solve a given real-world problem involving temperature.</td>
</tr>
<tr>
<td>27</td>
<td>Statistics and Probability</td>
<td>7.SP.C.7</td>
<td>CR</td>
<td>Develop a probability model from a visual model, develop another probability model from a set of data, and explain the differences in predictions made from both models.</td>
</tr>
<tr>
<td>28</td>
<td>The Number System</td>
<td>7.NS.A.1</td>
<td>SR</td>
<td>Determine which number line represents the additive inverse of a number.</td>
</tr>
<tr>
<td>30</td>
<td>Expressions and Equations</td>
<td>7.EE.A.2</td>
<td>SR</td>
<td>Determine which expression is not equivalent to a given expression within a real-world context.</td>
</tr>
<tr>
<td>31</td>
<td>Expressions and Equations</td>
<td>7.EE.A.1</td>
<td>SR</td>
<td>Use properties of operations to determine which expression is equivalent to a given expression.</td>
</tr>
<tr>
<td>32</td>
<td>Geometry</td>
<td>7.G.B.5</td>
<td>SR</td>
<td>Identify angles in a diagram that represent vertical angles.</td>
</tr>
<tr>
<td>33</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.3</td>
<td>CR</td>
<td>Use proportional relationships to solve multi-step ratio, rate, and percent problems within a real-world context.</td>
</tr>
<tr>
<td>34</td>
<td>Geometry</td>
<td>7.G.A.1</td>
<td>SR</td>
<td>Determine the area of a scale drawing.</td>
</tr>
<tr>
<td>35</td>
<td>Ratios and Proportional Relationships</td>
<td>7.RP.A.2</td>
<td>SR</td>
<td>Determine which equation can be used to represent a proportional relationship in a table.</td>
</tr>
<tr>
<td>36</td>
<td>The Number System</td>
<td>7.NS.A.3</td>
<td>SA</td>
<td>Use operations with decimals to solve a real-world problem.</td>
</tr>
<tr>
<td>37</td>
<td>Expressions and Equations</td>
<td>7.EE.A.2</td>
<td>SR</td>
<td>Rewrite an expression in a different form and then evaluate the expression for a given value.</td>
</tr>
<tr>
<td>38</td>
<td>Statistics and Probability</td>
<td>7.SP.C.5</td>
<td>SR</td>
<td>Determine how likely an event is to occur given the probability of the event.</td>
</tr>
<tr>
<td>39</td>
<td>Expressions and Equations</td>
<td>7.EE.B.4</td>
<td>SA</td>
<td>Solve a real-world problem involving the maximum value of an inequality.</td>
</tr>
<tr>
<td>40</td>
<td>The Number System</td>
<td>7.NS.A.3</td>
<td>SR</td>
<td>Solve a multi-step, real-world problem by converting units.</td>
</tr>
</tbody>
</table>

* Mathematics item types are: selected-response (SR), short-answer (SA), and constructed-response (CR).