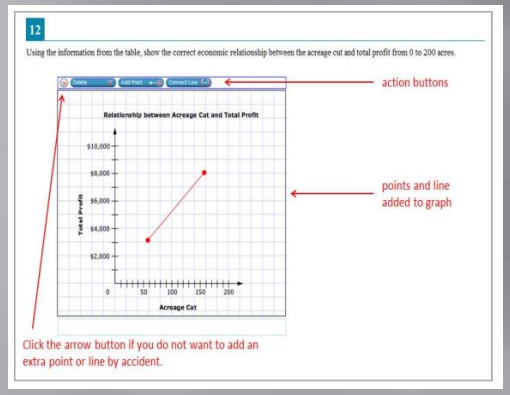
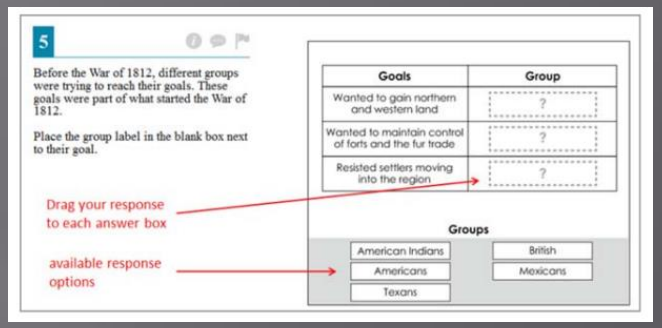
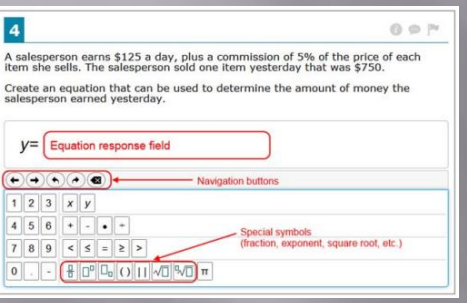


Grid Items with Action Buttons

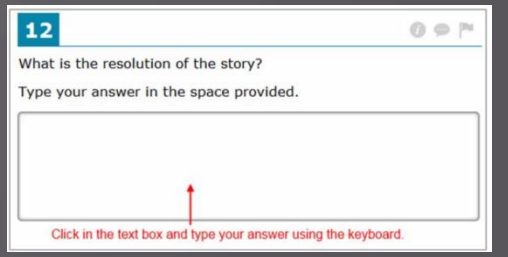


Hot Text Items

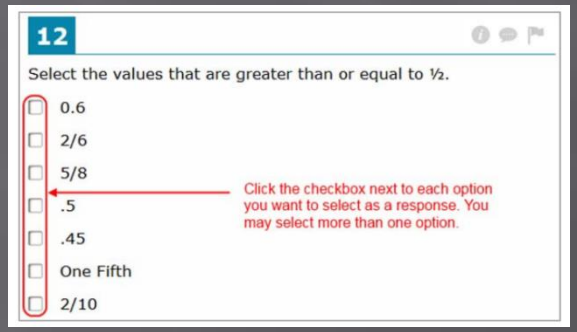
AZMERIT MATH



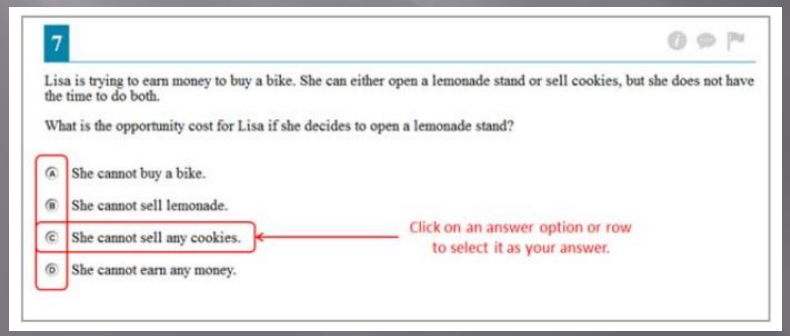
Equation Items



Open Response Items



Multi-Select Items



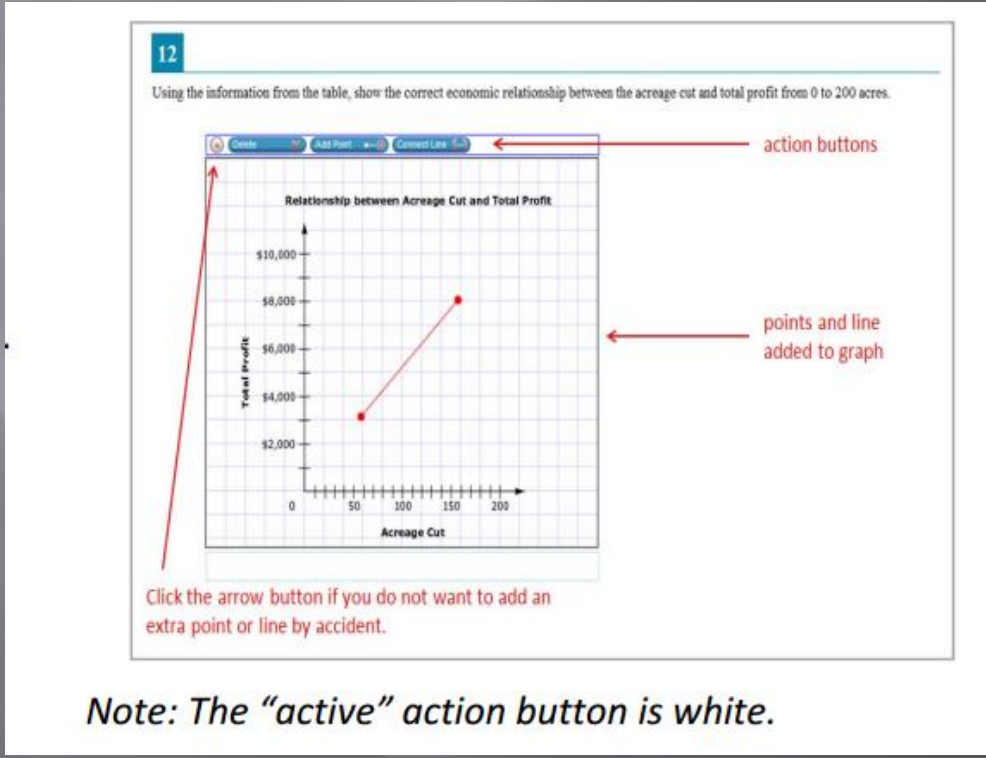
Multiple Choice Items

WHAT IS ONE TYPE OF QUESTION YOU WILL SEE WHEN TAKING THE AZMERIT ASSESSMENT ONLINE?

Grid Items with Action Buttons

What is a Grid Item with Action Buttons?

- Grid items require using points, lines, or arrow buttons to create a response.
- Let's look at some examples from the AzMerit online assessment



Examples of Grid Items with Action Buttons

1

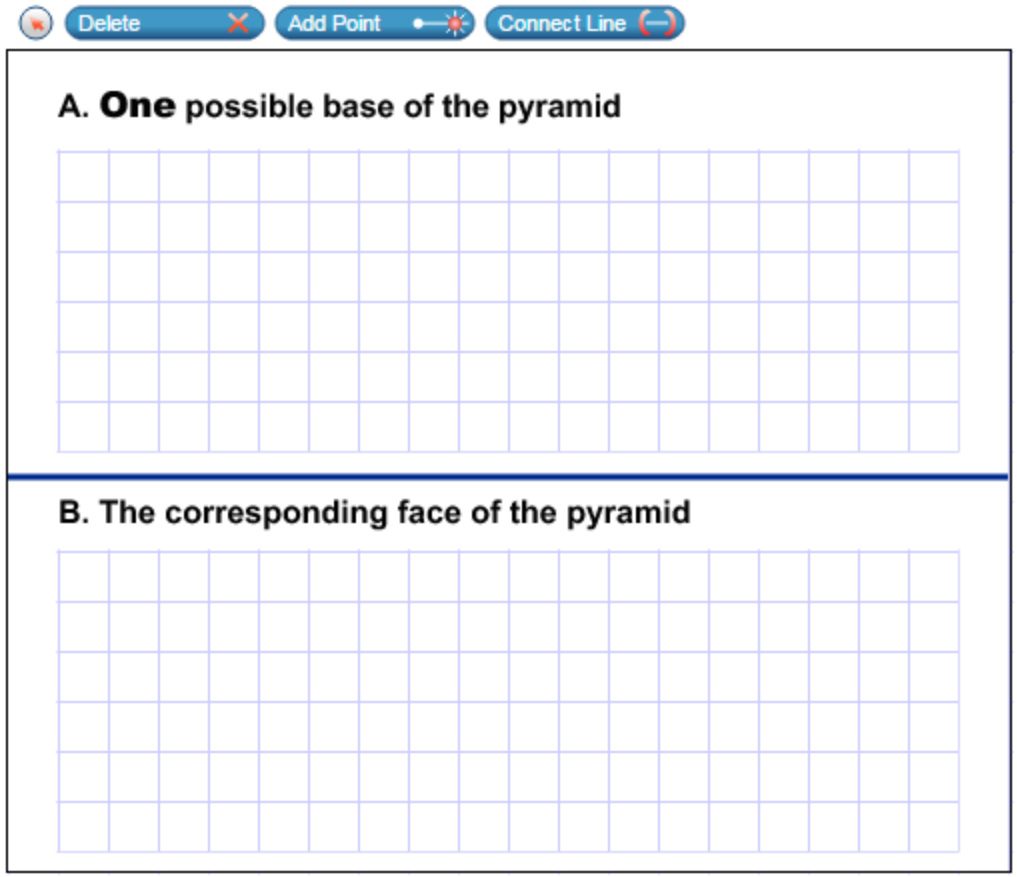
A square pyramid has a surface area of 40 square inches. The lengths of the pyramid's base, b, and slant height, s, are whole numbers.

A. Use the Connect Line tool to draw **one** possible base of the pyramid.

B. Use the Connect Line tool to draw the face of the pyramid with the base you drew in part A.

Each grid square has a side length that represents 1 inch.

$SA_{\text{square pyramid}} = 2bs + b^2$



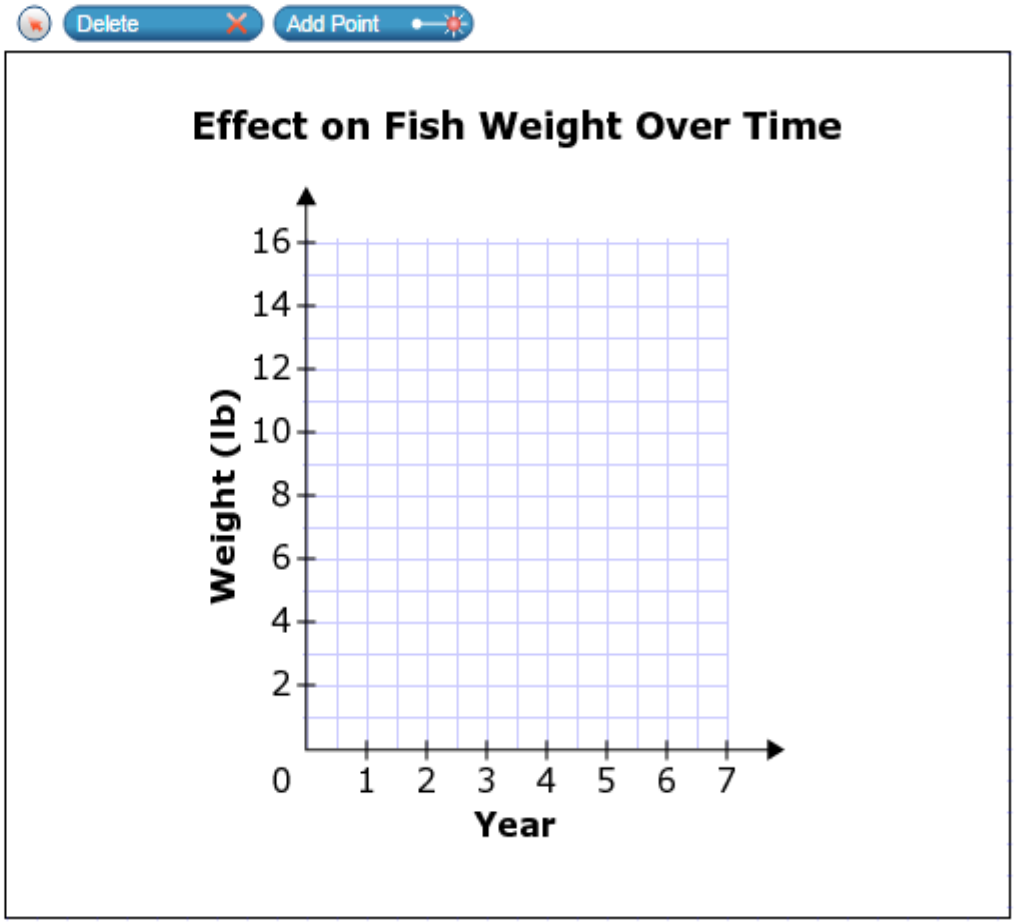
Grade 7-8 Sample test number #1

Examples of Grid Items with Action Buttons

6

A scientist is researching changes to a river's ecosystem. He believes something is destroying the food source of the fish in the river over time.

Use the Add Point tool to plot **eight** points to complete a scatter plot so that it supports the scientist's claim.



Grade 7-8 Sample test number #6

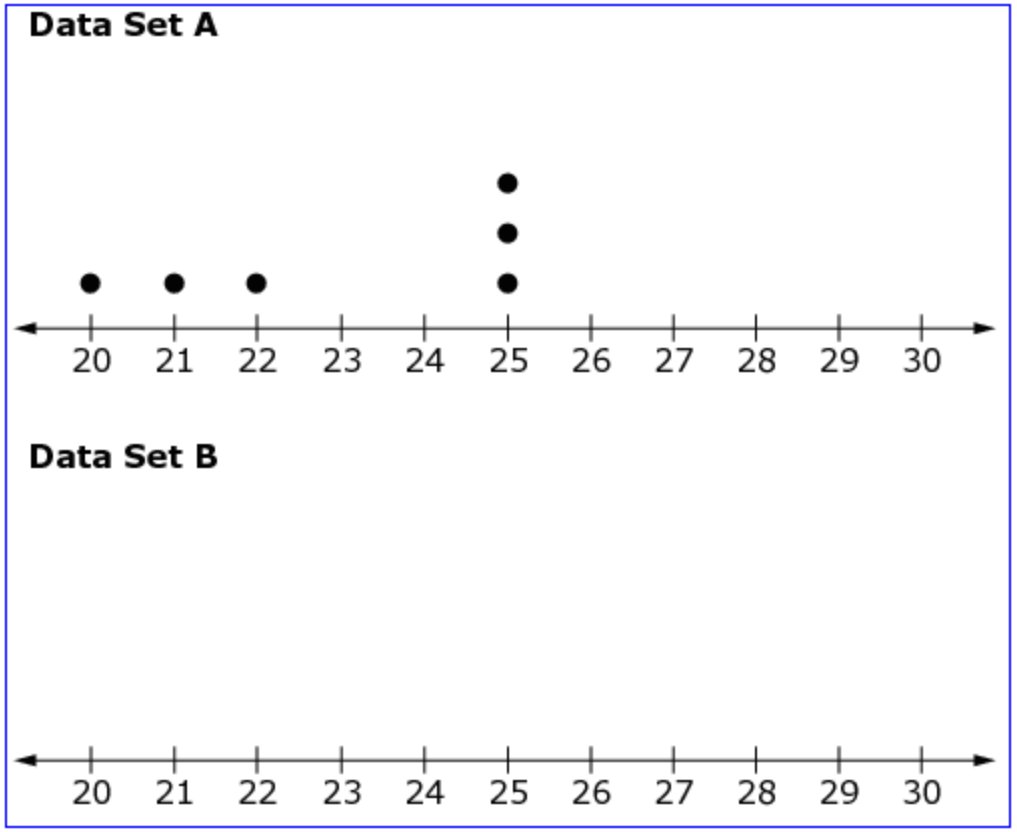
Examples of Grid Items with Action Buttons

13

Data Set A is shown.

Data Set A and Data Set B have the same mean absolute deviation. Data Set B has 6 elements.

Create Data Set B so that the mean is 2 mean absolute deviations larger than the mean for Data Set A. Click above the number line to create this data set.



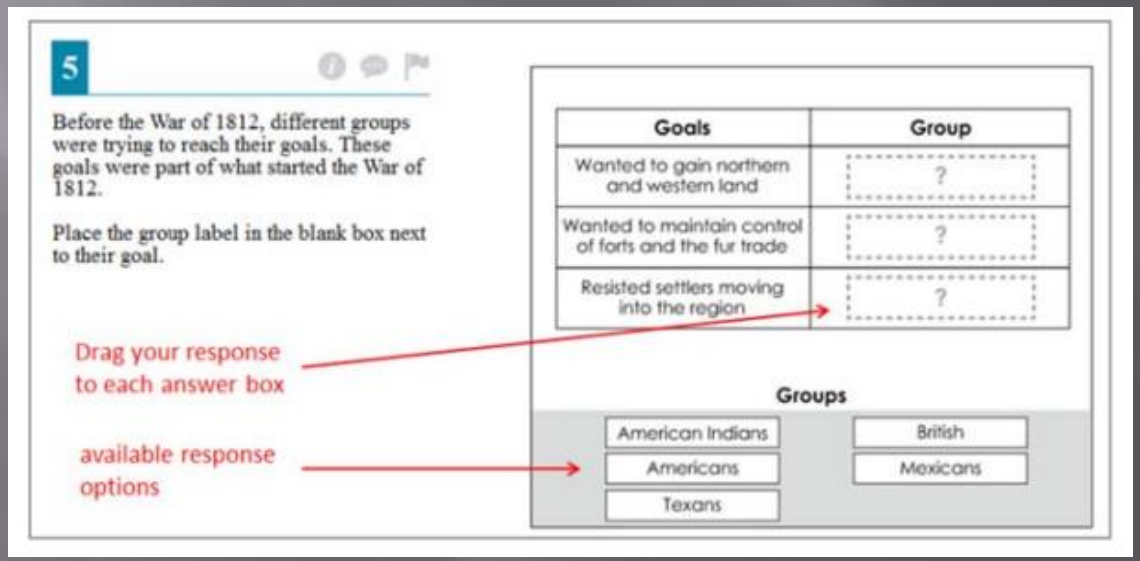
Grade 7-8 Sample test number #13

WHAT IS ANOTHER TYPE OF QUESTION YOU WILL SEE WHEN TAKING THE AZMERIT ASSESSMENT ONLINE?

Hot Text Items

What is Hot Text items?

- Hot Text items require you to either click on a response option or drag a response option to another location.
- Let's look at some more examples from the AzMerit online assessment



Examples of Hot Topic Items

4

James wants to sort a set of numbers into two groups.

Drag each value to the correct column to show which are rational numbers and which are irrational numbers.

Rational Numbers	Irrational Numbers

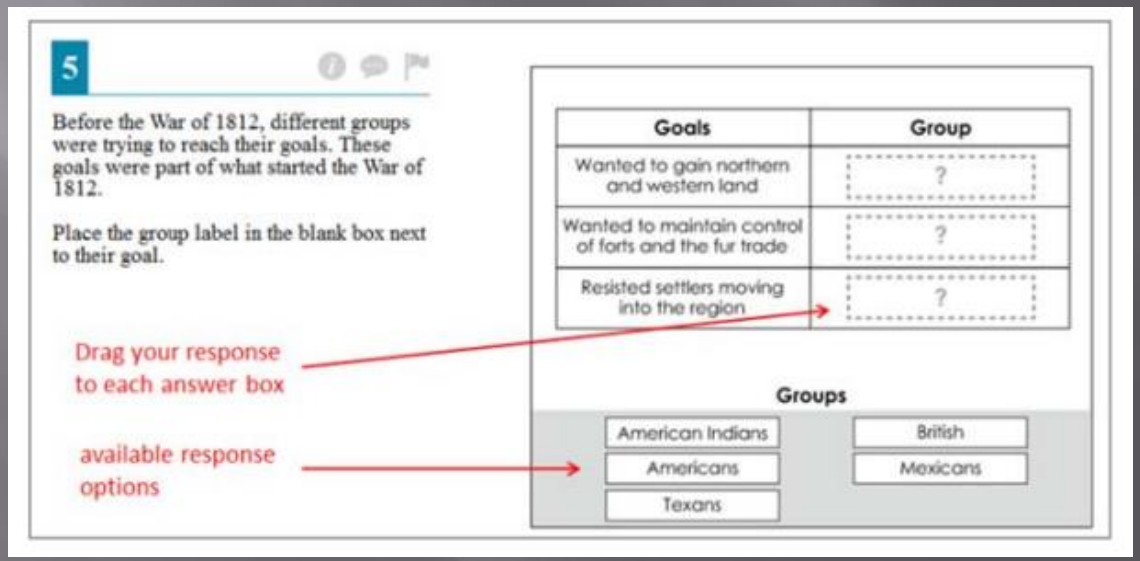
$\sqrt[3]{8}$ $\sqrt{3}$ $0.\overline{6}$ π 7.3 $\sqrt{9}$ $\sqrt[3]{9}$

Grade 7-8 Sample test number #4

Multiple Choice Items

What is Multiple Choice items?

- Multiple-choice items require you to select a single answer option
- Helpful Hint-You may click anywhere on the answer or click in the circle that contains A, B, C, or D. The selected answer circle will darken



Examples of Multiple Choice Items

2

Lindsey used a bag of candy to do a probability experiment. In the experiment, she selected one piece of candy at random from the bag, recorded the color, and put the candy back in the bag. She performed this action 12 times and recorded her results in the table shown.

Probability Experiment

Candy Color	Number of Times Selected
Green	2
Orange	1
Purple	4
Yellow	5

Based on the results, what is the probability that the next piece of candy Lindsey selects will be a purple candy?

Ⓐ $\frac{1}{4}$

Ⓑ $\frac{1}{3}$

Ⓒ $\frac{1}{2}$

Ⓓ $\frac{2}{3}$

Examples of Multiple Choice Items

3

Factor $6x - 9$.

(A) $2(3x - 9)$

(B) $3(2x - 3)$

(C) $3(3x - 2)$

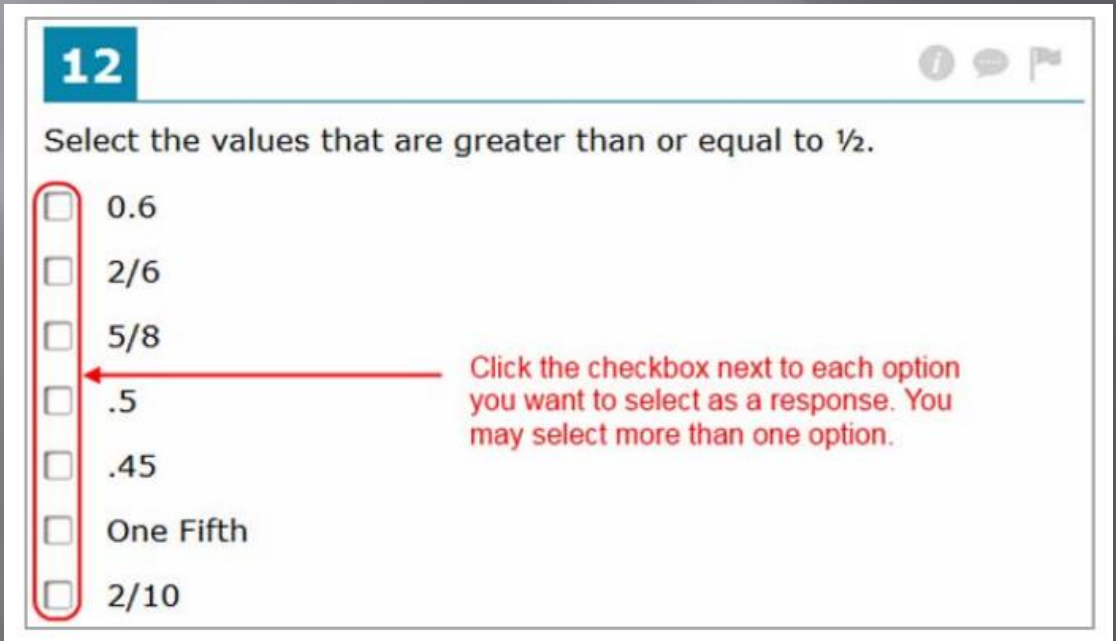
(D) $6(x - 9)$

Grade 7-8 Sample test number #3

Multi-Select Items

What is Multi-Select items?

- Multi-select items allow you to select more than one answer option
- Helpful Hint-Some items may ask you to select a specific number of responses



Examples of Multi-Select Items

7

Select all the expressions that are equivalent to −7.

- ☐ $-\frac{14}{2} \times \frac{7}{7}$
- ☐ $7 \times -1 \times -1 \times -1$
- ☐ $-4 \times \frac{7}{4}$
- ☐ -7×-1
- ☐ 7^{-1}

Grade 7-8 Sample test number #7

Examples of Multi-Select Items

11

Select all the statements that are true about $\frac{22}{7}$.

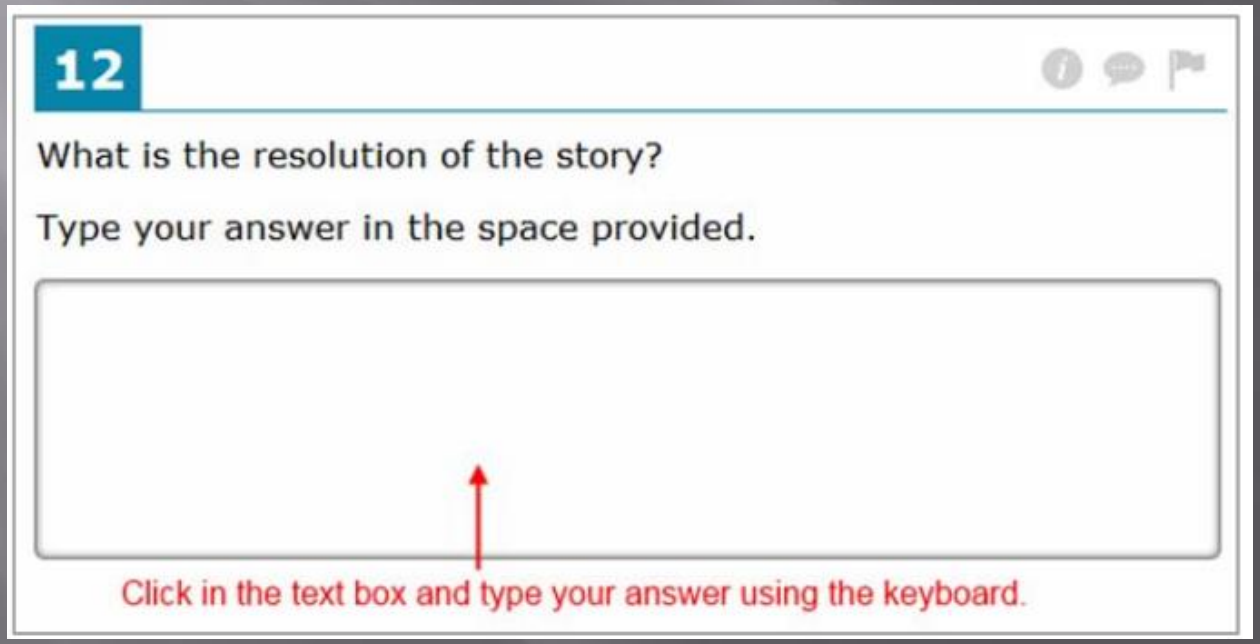
- [ ] It is a rational number.
- [ ] It is an irrational number.
- [ ] When it is written as a decimal, it terminates.
- [ ] When it is written as a decimal, it repeats.
- [ ] It is an approximate value of pi.
- [ ] When it is written as a decimal, it is equivalent to 3.10.

Grade 7-8 Sample test number #11

Open Response Items

What is Open Response items?

- Open-response items require you to use the keyboard to enter the response into a text field
- Different types of open-response items may appear on the test



Examples of Open Response Items

12

An equation is shown.

$a^b = c$

Both a and c are less than 0, and b is a positive integer.

State another fact that must be true about b. Give a complete statement to explain your reasoning.

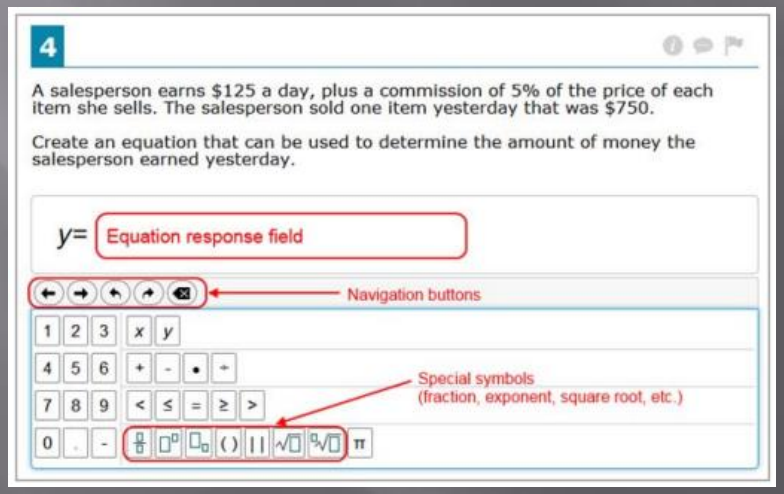
Type your answer in the space provided.

Grade 7-8 Sample test number #12

Equation Items

What is Equation items?

- Equation items require you to enter a valid statement that answers the question, such as y=3x+2.
- Different types of open-response items may appear on the test

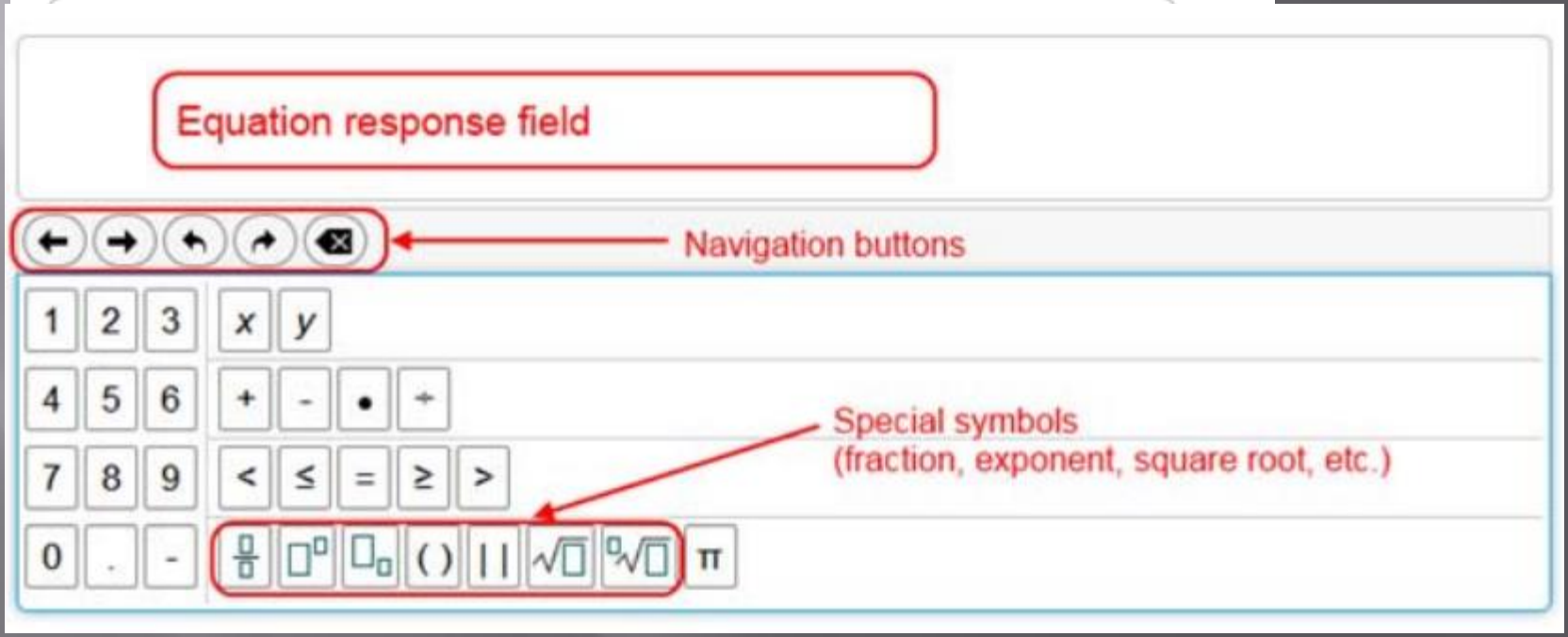


5

Consider a fraction with the following characteristics:

- It represents a repeating decimal.
- The denominator is less than 10.
- It is less than 0.2.

What could this fraction be?



Examples of Equation Items

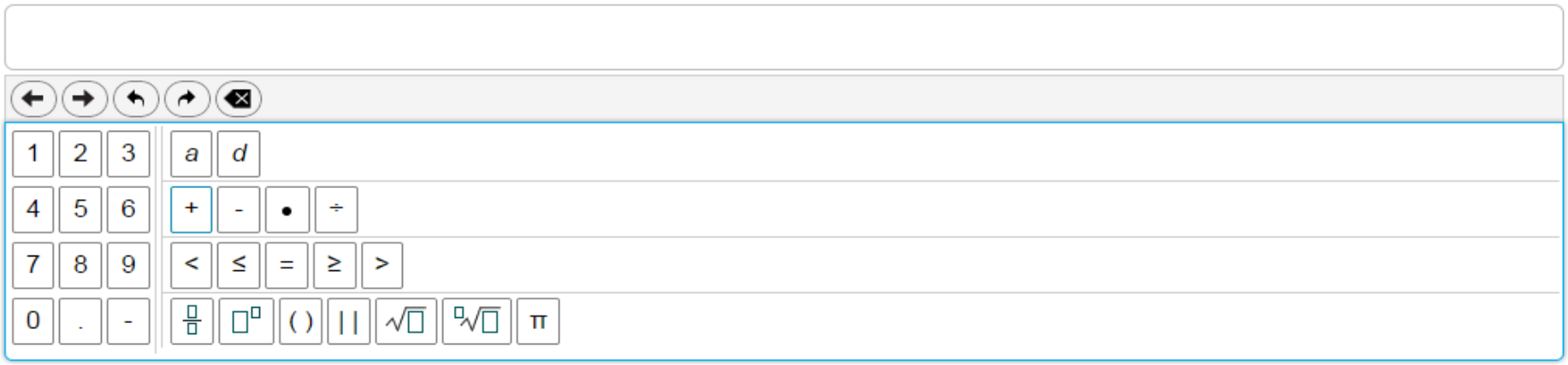
15

The table shows the amount of money in Jody's bank account on certain days.

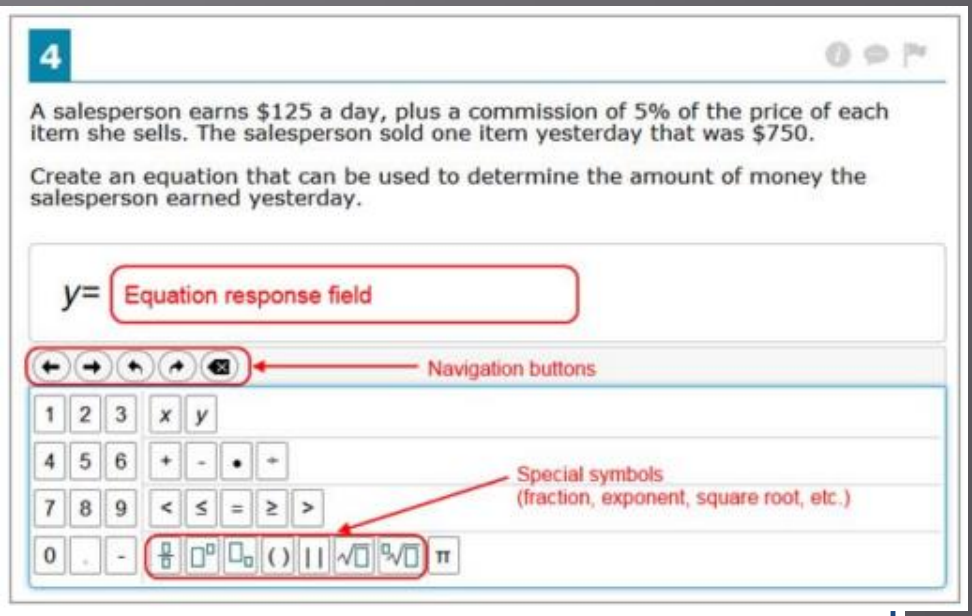
Jody's Bank Account

Day (*d*)	Amount (*a*)
2	$ 83
5	$143
7	$183
11	$263
15	$343

Create an equation that models the relationship between the day, *d*, and the amount of money, *a*, in Jody's bank account.



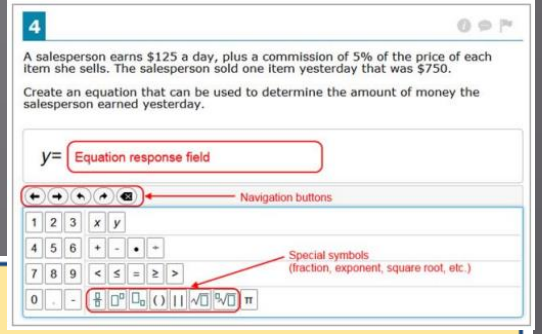
Description of Navigation Buttons



About the Navigation Buttons for Equation Item

Navigation Button	
Move Left 	The straight left arrow button allows you to move the cursor before an existing character.
Move Right 	The straight right arrow button allows you to move the cursor after an existing character.
Undo 	The curved left arrow button allows you to undo the previous action.
Redo 	The curved right arrow button allows you to redo the previous undone action.
Delete 	The delete button allows you to delete characters.

Description of Special Symbols



Special Symbol	Description
Fraction	This symbol allows you to enter a **fraction** into the equation editor. Select the numerator, then navigate to the denominator, and then select the value for that field.
Exponent	This symbol allows you to enter an **exponent** into the equation editor. After you enter the base number, select the exponent button, and then enter the exponent number.
Subscript	This symbol allows you to enter a **subscript** into the equation editor. After you enter the base number, select the subscript button, and then enter the subscript number.
Parentheses	This symbol allows you to enter **parentheses**. Once you select the symbol, the parentheses will appear in the equation editor. Then select the numbers and symbols that should appear between the open and close parentheses.
Absolute Value	This symbol allows you to enter an **absolute value**. Once you select the symbol, the lines will appear in the equation editor. Then select the numbers and symbols that should appear between the lines.
Square Root	This symbol allows you to enter a **square root** value. Once you select the symbol, the radical sign will appear in the equation editor. Enter the number that should appear under the radical sign.
n^{th} Root	This symbol allows you to enter an **n^{th} root** value. Once you select the symbol, the radical sign will appear in the equation editor. Enter the number that should appear under the radical sign. Use the straight left arrow to navigate to the n^{th} field and enter the number that should appear there.