

3				
efore the War of 1812, different groups		Goals	Group	
oals were part of what started the War of 812.	W	anted to gain northern and western land	?	
ace the group label in the blank box next their goal.	War	nted to maintain contro forts and the fur trade	?	
alla era 🕳 Ardeo	Resisted settlers moving into the region ?			
Drag your response	-			
to each answer box	Groups			
		American Indians	British	
available response		Americans	Mexicons	
ODUOIIS				

### Grid Items with Action Buttons

### Hot Text Items

sales	erson earns \$125 a day, plus a commission of 5% of the price of eacl a sells. The salesperson sold one item vesterday that was \$750.
reate a alespe	in equation that can be used to determine the amount of money the son earned yesterday.
<i>v</i> =	Equation response field

÷	)(+	)(	h)(#	Navigation buttons
1	2	3	x	
4	5	6	+	Special symbols
7	8	9	<	i = ≥ > (fraction, exponent, square root, etc.)
0	•	-	8	

### **Equation Items**



What is the resolution of the story?	
Type your answer in the space provided.	

7		997
Lis	sa is trying to earn money to buy a bike. She time to do both.	can either open a lemonade stand or sell cookies, but she does not have
w	hat is the opportunity cost for Lisa if she dec	cides to open a lemonade stand?
(	She cannot buy a bike.	
	Character and I have a star	
۵	She cannot sell lemonade.	
() ()	She cannot sell any cookies.	Click on an answer option or row



### Multi-Select Items

### Open Response 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



Note: The "active" action button is white.

## 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.

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



## Examples of Grid Items with Action Buttons

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.

6

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



## 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.



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.





# 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?

D

## Examples of Multiple Choice Items



Factor 6 x – 9.

- A 2(3x 9)
- B 3(2x 3)
- © 3(3*x* − 2)
- (b) 6(x-9)



# 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



### 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.



# 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.



### **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

er	n s	he s	sells	. Th	he salesperson sold one item yesterday that was \$750.	each
re	ate	an erso	equ on e	atio	on that can be used to determine the amount of money ed yesterday.	the
		C				
	y=	E	qua	tion	n response field	
			_			
E	)(+	)(•	.)(*	)(	Navigation buttons	
+	2	)(+	•)(•	)(• y	Navigation buttons	
+ 1 4	€ 2 5	)(+ 3 6	×	)(•  y   -	Navigation buttons	
← 1 4 7	<ul><li>↓</li><li>2</li><li>5</li><li>8</li></ul>	)(• 3 6 9	× +	) ( y - s	Navigation buttons      Special symbols     (fraction, exponent, square root, etc)	:.)

### 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?

		E	quat	tion	resp	onse fi	eld		
F	)(+	)(•	)(+	)(	]•			Naviga	tion buttons
1	2	3	x	y					
4	5	6	+	-	•	+			<ul> <li>Special symbols</li> </ul>
7	8	9	<	٤	=	2 >	-	-	(fraction, exponent, square root, etc.)
0		-	8			OII		π	

## 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.

123 <i>ad</i>
4 5 6 + - • ÷
7 8 9 < ≤ = ≥ >
0 Η Ο ΙΙ - Π

### Description of Navigation Buttons

About the Navigation Buttons for Equation Item

007 4 A salesperson earns \$125 a day, plus a commission of 5% of the price of each item she sells. The salesperson sold one item yesterday that was \$750. Create an equation that can be used to determine the amount of money the salesperson earned yesterday. V=Equation response field + Navigation buttons 1 2 3 x y 6 4 5 + . . Special symbols (fraction, exponent, square root, etc.) 7 8 9 < ≤ = ≥ >

Navigation Button	789<≤=≥> 0 ⊞□□□()  √□∿□π					
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

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iter	ales n sł	per ne s	son ells.	arns \$125 a The salespers	day, plus a commission of 5% of the price of each son sold one item yesterday that was \$750.
Cre	ate	an	equa	tion that can	be used to determine the amount of money the
sale	espe	erso	in ea	ned yesterda	ау.
		-			
	y=	E	quati	on response fi	ield
		_			
-	-	100	200	0	
•	)(+	)(•	)(+		Navigation buttons
•	2	3	)(*   X	<b>@</b> ←	Navigation buttons
+ 1 4	<ul><li>→</li><li>2</li><li>5</li></ul>	3	×		Navigation buttons
+ 1 4 7	<ul><li>→</li><li>2</li><li>5</li><li>8</li></ul>	3 6 9	) (*   X     X     X		Navigation buttons Special symbols (fraction, exponent, square root, etc.)

Special	Description			
Symbol				
Fraction	This symbol allows you to enter a <b>fraction</b> 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 <b>exponent</b> 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 <b>subscript</b> 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 <b>parentheses</b> . 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 <b>absolute value</b> . 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 <b>square root</b> 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 <sup>th</sup> Root	This symbol allows you to enter an <b>n</b> <sup>th</sup> <b>root</b> 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 <sup>th</sup> field and enter the number that should appear there.			