

STAAR Grade 7 Math Answer Key

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answer(s)	Reporting Category	Readiness or Supporting
1	Multiple Choice	7.2.4.D	1	D	2	Readiness
2	Drag and Drop	7.1.6.A	2	Pepperoni, Sausage, Thick, Sausage See Appendix 1.1	1	Supporting
3	Multiple Choice	7.2.10.A	1	A	2	Supporting
4	Multiple Choice	7.3.5.C	1	A	3	Readiness
5	Hotspot	7.4.13.B	2	Groceries, Rent, Entertainment See Appendix 1.2	4	Supporting
6	Multiple Choice	7.1.6.D	1	C	1	Supporting
7	Multiple Choice	7.2.7.A	1	B	2	Readiness
8	Multiple Choice	7.3.9.B	1	D	3	Readiness
9	Graphing	7.2.4.A	1	Selected 2 points on the line $y = 40x$, such as $(0, 0)$, and $(1, 40)$. See Appendix 1.3	2	Readiness
10	Multiple Choice	7.4.12.A	1	D	4	Readiness
11	Multiple Choice	7.3.5.B	1	A	3	Supporting
12	Multiple Choice	7.4.6.G	1	C	4	Readiness
13	Equation Editor	7.3.9.C	1	15 See Appendix 1.4	3	Readiness
14	Multiple Choice	7.2.3.B	1	B	2	Readiness
15	Multiple Choice	7.1.6.H	1	A	1	Readiness
16	Multiple Choice	7.1.6.I	1	D	1	Readiness

17	Multiple Choice	7.3.9.A	1	A	3	Readiness
18	Multiple Choice	7.2.11.A	1	B	2	Readiness
19	Multiple Select	7.3.5.A	2	C, E See Appendix 1.5	3	Supporting
20	Multiple Choice	7.4.12.C	1	B	4	Supporting
21	Multiple Choice	7.2.4.D	1	C	2	Readiness
22	Multiple Choice	7.3.11.C	1	B	3	Supporting
23	Multiple Select	7.2.4.A	2	A, E See Appendix 1.6	2	Readiness
24	Multiple Choice	7.3.9.D	1	A	3	Supporting
25	Drag and Drop	7.2.7.A	2	$-\frac{1}{3}, -3$ See Appendix 1.7	2	Readiness
26	Multiple Choice	7.3.9.C	1	D	3	Readiness
27	Multiple Choice	7.2.10.B	1	C	2	Supporting
28	Hotspot	7.4.6.G	2	Selected the first, second, and fourth statements. See Appendix 1.8	4	Readiness
29	Multiple Choice	7.2.11.B	1	D	2	Supporting

30	Multiple Choice	7.1.6.I	1	D	1	Readiness
31	Multiple Choice	7.2.3.B	1	C	2	Readiness
32	Inline Choice	7.4.12.A	2	asymmetrical, range See Appendix 1.9	4	Readiness
33	Multiple Choice	7.2.4.C	1	B	2	Supporting
34	Multiple Choice	7.3.9.A	1	A	3	Readiness
35	Drag and Drop	7.1.6.H	2	more likely than, less likely than See Appendix 1.10	1	Readiness
36	Multiple Choice	7.2.4.B	1	B	2	Supporting
37	Multiple Choice	7.3.9.B	1	B	3	Readiness
38	Multiple Choice	7.2.11.A	1	C	2	Readiness

STAAR Grade 7 Math Appendix

1.1

Jana is ordering a one-topping pizza. She can choose pepperoni or sausage for her topping and can choose thin, thick, or stuffed crust.

Complete the table to show all possible one-topping pizzas she can order.

Move the correct answer to each box in the table. Each answer may be used more than once. Not all answers will be used.

Pepperoni Sausage Thin Thick Stuffed

One-Topping Pizzas

Pizza	Topping	Crust
1	Pepperoni	Thin
2	Sausage	Thin
3	Pepperoni	Stuffed
4	Sausage	Stuffed
5	Pepperoni	Thick
6	Sausage	Thick

1.2

Rashad is preparing his monthly budget for college. The table shows Rashad's budget.

Which categories represent more than 10% of the total budget?

Select **THREE** correct answers.

Rashad's Monthly Budget

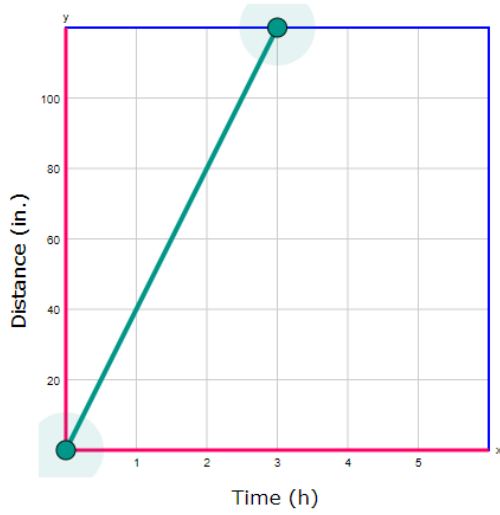
Category	Monthly Amount (dollars)
Groceries	250
Gasoline	90
Cell phone	100
Rent	440
Entertainment	110
Utilities	75

1.3

A snail moving at a constant rate traveled a distance of 20 inches in $\frac{1}{2}$ hour. Create a graph to represent y , the number of inches the snail traveled in x hours.

Select two points on the coordinate grid. A line will connect the points.

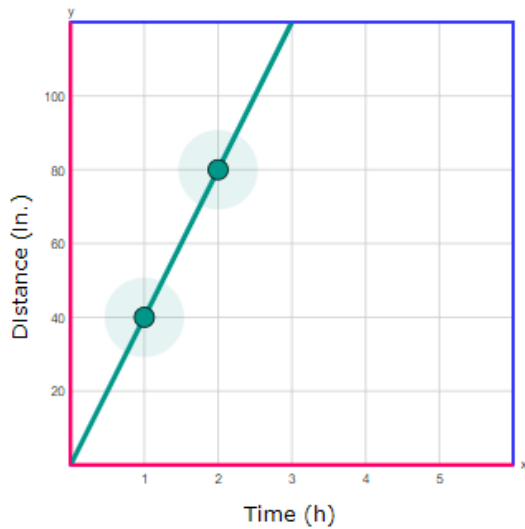
Snail Movement



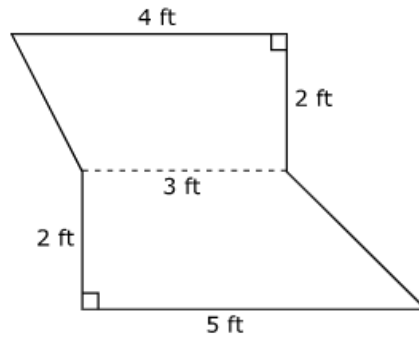
A snail moving at a constant rate traveled a distance of 20 inches in $\frac{1}{2}$ hour. Create a graph to represent y , the number of inches the snail traveled in x hours.

Select two points on the coordinate grid. A line will connect the points.

Snail Movement



The figure is composed of two trapezoids. Measurements are given in feet.



What is the area of the figure in square feet?

Enter your answer in the box.

←	→	↶	↷	✕
1	2	3		
4	5	6		
7	8	9		
	0			
.	-	$\frac{\square}{\square}$		

1.5

A pair of quadrilaterals are similar. Which statements about the quadrilaterals must be true?

Select **TWO** correct answers.

- The corresponding sides of the quadrilaterals must be congruent.
- The opposite sides of the quadrilaterals must be congruent.
- The corresponding angles of the quadrilaterals must be congruent.
- The corresponding angles of the quadrilaterals must each be right angles.
- The corresponding side lengths of the quadrilaterals must be proportional.

1.6

A family makes homemade pickles. They pack the pickles at a rate of 80 pickles per 5 jars.

Which answer choices best represent packing y pickles in x jars at that rate?

Select **TWO** correct answers.

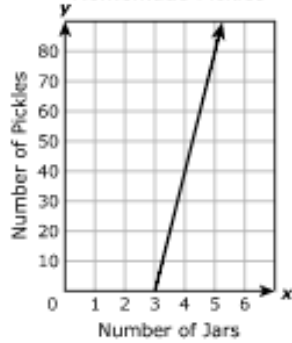
$y = 16x$

$y = \frac{1}{16}x$

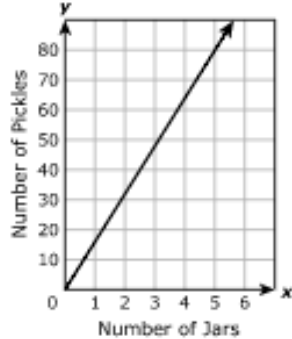
Homemade Pickles

Number of Jars, x	Number of Pickles, y
6	160
7	240
8	320

Homemade Pickles



Homemade Pickles



1.7

The table shows a linear relationship between x and y .

x	y
-6	-1
0	-3
3	-4
9	-6

Create an equation that describes the relationship shown in the table.

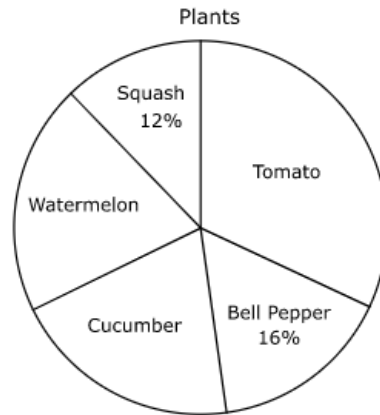
Move the correct answer to each box. Not all answers will be used.

-9	-3	$-\frac{1}{3}$	$\frac{1}{3}$	3	9
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$$y = \boxed{-\frac{1}{3}}x + \boxed{-3}$$

1.8

A garden contains 50 plants. The number of tomato plants is twice the number of bell pepper plants. The number of cucumber plants is the same as the number of watermelon plants. The remainder of the garden consists of squash plants. The circle graph shows the percentages of some of the types of plants in the garden.



Which statements are true?

Select **THREE** correct answers.

The number of tomato plants is 16.

The total number of cucumber and bell pepper plants is 18.

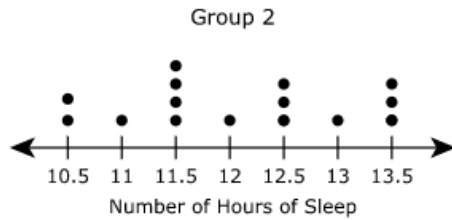
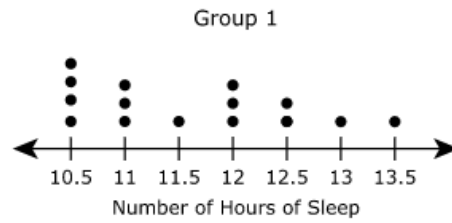
Over 50% of the plants are tomatoes and bell peppers.

Watermelon and cucumber plants combined are 40% of the plants.

Cucumber plants are 26% of the plants.

1.9

Researchers at a zoo recorded the number of hours that the gorillas in two groups slept at night. The dot plots show the results.



Each ● means 1 gorilla.

Compare the data in the dot plots.

Choose the correct answer from each drop-down menu to complete the sentence.

The distribution of the data for both groups is , and both groups have the same .

1.10

The table shows the number of games in which a basketball team's total score was within each of five ranges of points.

Basketball Team Scores

Total Score	Number of Games
96–105	19
106–115	21
116–125	17
126–135	10
136–145	3

Using the data in the table, complete the predictions about the number of points the team will score in its next game.

Move the correct answer to each box. Each answer may be used more than once. Not all answers will be used.

more likely than less likely than equally likely as

Scoring 96–105 points in the next game is **more likely than** scoring 136–145 points in the next game.

Scoring 116–125 points in the next game is **less likely than** scoring 106–115 points in the next game.