STAAR Spring 2025 Grade 8 Mathematics Answer Key

Item Position	Item Type	TEKS Assessed	Maximum Number of Points	Correct Answer(s)	Reporting Category	Readiness or Supporting
1	Multiple Choice	8.2.4.B	1	B	2	Readiness
2	Inline Choice	8.4.12.D	2	$900, $5,400 See Appendix 1.1	4	Readiness
3	Multiple Choice	8.2.5.G	1	A	2	Readiness
4	Multiple Choice	8.1.2.D	1	D	1	Readiness
5	Multiple Choice	8.2.4.C	1	B	2	Readiness
6	Multiple Choice	8.3.10.C	1	C	3	Readiness
7	Graphing	8.2.5.A	1	(0, 0), (3, 7) See Appendix 1.2	2	Supporting
8	Multiple Choice	8.4.5.D	1	C	4	Readiness
9	Equation Editor	8.3.7.B	1	12 See Appendix 1.3	3	Readiness
10	Multiple Choice	8.2.8.C	1	D	2	Readiness
11	Inline Choice	8.3.10.D	2	70.56, 8.4 See Appendix 1.4	3	Supporting
12	Multiple Choice	8.2.5.H	1	A	2	Supporting
13	Multiple Choice	8.3.3.B	1	C	3	Supporting
14	Equation Editor	8.2.8.A	1	49, 0.65, 60, 0.55 See Appendix 1.5	2	Supporting
15	Multiple Choice	8.3.7.D	1	D	3	Supporting
16	Drag and Drop	8.2.5.I	2	1.25, 0.75 See Appendix 1.6	2	Readiness
17	Multiple Choice	8.3.3.C	1	B	3	Readiness
18	Multiple Choice	8.4.5.C	1	D	4	Supporting
19	Multiple Choice	8.3.7.C	1	A	3	Readiness
20	Multiple Choice	8.2.5.E	1	C	2	Supporting
21	Multiple Choice	8.3.7.A	1	B	3	Readiness
22	Multiple Choice	8.2.8.C	1	A	2	Readiness
23	Drag and Drop	8.3.7.C	2	6, 17 See Appendix 1.7	3	Readiness
24	Multiple Choice	8.1.2.C	1	C	1	Supporting
25	Drag and Drop	8.3.6.A	2	7.5^2, 4.5 OR 4.5, 7.5^2 See Appendix 1.8	3	Supporting
26	Multiple Choice	8.4.12.D	1	A	4	Readiness

27	Multiple Choice	8.3.6.C	1	A	3	Supporting
28	Multiple Choice	8.2.4.B	1	B	2	Readiness
29	Multiple Choice	8.3.3.C	1	C	3	Readiness
30	Drag and Drop	8.2.4.C	2	$14.25, $25.00 See Appendix 1.9	2	Readiness
31	Multiple Choice	8.4.5.D	1	D	4	Readiness
32	Drag and Drop	8.3.10.C	2	$(-x, y)$, $(y, -x)$ See Appendix 1.10	3	Readiness
33	Multiple Choice	8.2.5.G	1	A	2	Readiness
34	Inline Choice	8.4.12.A	2	Bank Y, $222.63 See Appendix 1.11	4	Supporting
35	Multiple Choice	8.3.7.A	1	A	3	Readiness
36	Multiple Choice	8.2.5.F	1	A	2	Supporting
37	Multiple Choice	8.3.7.B	1	B	3	Readiness
38	Multiple Choice	8.1.2.D	1	D	1	Readiness
39	Multiple Choice	8.3.10.B	1	C	3	Supporting
40	Multiple Choice	8.2.5.I	1	D	2	Readiness

STAAR Spring 2025 Grade 8 Mathematics Appendix

1.1

Janice deposits $4,500 into an investment account that earns 4% simple interest. She makes no additional deposits or withdrawals.

Complete the sentence about the amount of interest earned and the total balance after 5 years.

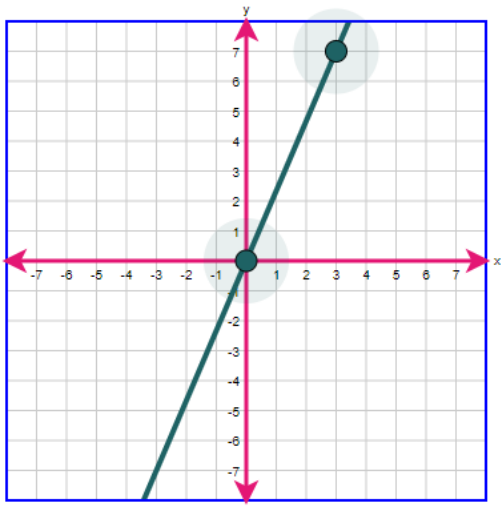
Choose the correct answer from each drop-down menu to complete the sentence.

After 5 years, Janice's investment account will have earned $900 in interest and will have a total balance of $5,400.

1.2

Plot two points that represent a proportional relationship in which $y = 7$ when $x = 3$.

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



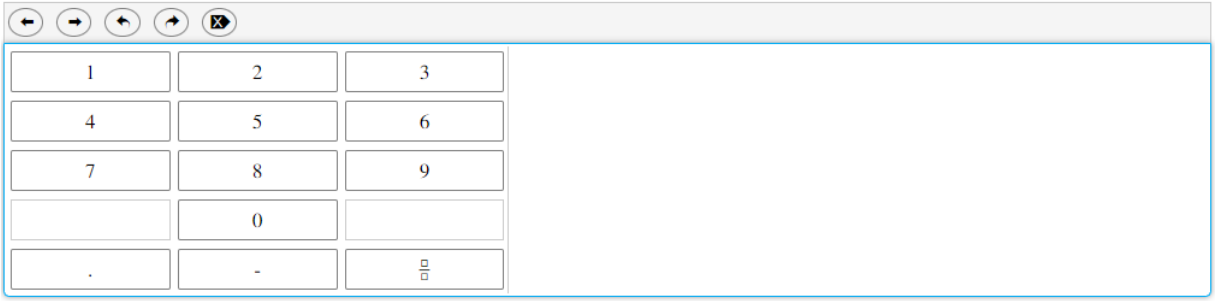
1.3

The lateral surface area of a triangular prism is 252 square feet. The side lengths of the triangular base are 6 feet,7 feet, and 8 feet.

What is the height of the prism in feet?

Enter your answer in the box.

12



1.4

Two parallelograms are similar. The dimensions of the larger parallelogram are 8.4 times the corresponding dimensions of the smaller parallelogram.

Complete the sentences about the area and perimeter of the two parallelograms.

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

The area of the larger parallelogram is 70.56 times the area of the smaller parallelogram.

The perimeter of the larger parallelogram is 8.4 times the perimeter of the smaller parallelogram.

1.5

Jamia can rent a moving truck from Company A for $49.00 plus $0.65 per mile. She can rent a moving truck from Company B for $60.00 plus $0.55 per mile.

Write an inequality that represents the minimum number of miles, x, for which the cost of renting a moving truck from Company A is greater than the cost from Company B.

Enter your answers in the boxes provided.

$$49 + 0.65x > 60 + 0.55x$$

1	2	3
4	5	6
7	8	9
	0	
.	-	

1.6

A linear relationship includes the ordered pairs $(1, 2)$ and $(5, 7)$. Write an equation in slope-intercept form that can be used to model the relationship.

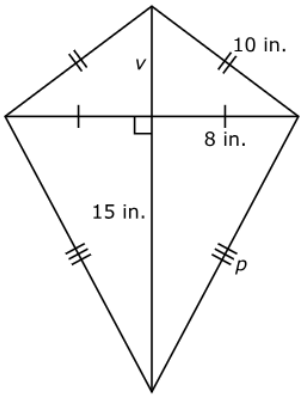
Move the correct answer to each box. Not all answers will be used.

0.75 0.8 1.2 1.25 1.4

$y =$ 1.25 x + 0.75

1.7

Wood pieces that were used to build the frame of a kite are shown.



What are the measures of the missing vertical length, v, and the missing side length, p, in inches?

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

5 6 13 17 18 23 33 36

The measure of the missing vertical length, v, is [6] inches, and the measure of the missing side length, p, is [17] inches.

1.8

A swimming pool is in the shape of a cylinder:

- The diameter of the swimming pool is 15 feet.
- The height of the swimming pool is 4.5 feet.

Complete the equation that represents V, the volume of the swimming pool in cubic feet.

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

2.25 4.5 7.5 15 2.25^2 4.5^2 7.5^2 15^2

$V = \pi($ [7.5^2] $)($ [4.5] $)$

1.9

Eva is starting a new job. She earns an hourly wage, and the cost of her uniform is taken out of her first paycheck. She makes a table showing different numbers of hours she could work, x, and the amount that her first paycheck would be, y.

Eva's Paycheck

Number of Hours Worked, x	First Paycheck Amount, y (dollars)
2	3.50
5	46.25
7	74.75
9	103.25
12	146.00

Based on the table, what is Eva's hourly wage and what is the cost of her uniform?

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

$2.00 $3.50 $9.25 $12.00 $14.25 $25.00

Hourly wage: $14.25 per hour

Uniform cost: $25.00

1.10

Triangle *UVW* and triangle *PQR* are transformed on a coordinate plane. Complete each rule with the coordinates of the image of the transformation.

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

$(-x, -y)$ $(y, -x)$ $(-x, y)$ $(x, -y)$

Transformation	Rule
Triangle *UVW* reflected across the y-axis	$(x, y) \rightarrow$ $(-x, y)$
Triangle *PQR* rotated $90°$ clockwise about the origin	$(x, y) \rightarrow$ $(y, -x)$

1.11

Mr. Jiménez wants to borrow $6,850.00 from a bank to buy new furniture.

- Bank X offers a 5-year loan at 3.5% simple interest.
- Bank Y offers a 3-year loan at 4.75% simple interest.

At which bank will Mr. Jiménez pay less interest over the life of the loan, and how much less interest will he pay?

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

Mr. Jiménez will pay less interest at Bank Y.

He will pay $222.63 less interest over the life of the loan.