STAAR Spring 2024 Grade 8 Math Answer Key

Item Position	Item Type	TEKS Alignment	Maximum Number of Points	Correct Answer(s)	Reporting Category	Readiness or Supporting
1	Multiple Choice	8.3.7.A	1	А	3	Readiness
2	Multiple Choice	8.1.2.D	1	В	1	Readiness
3	Multiple Choice	8.2.5.G	1	А	2	Readiness
4	Multiple Choice	8.4.5.D	1	С	4	Readiness
5	Drag and Drop	8.2.5.I	2	$\frac{\frac{3}{4}}{5}, 2$ See Appendix 1.1	2	Readiness
6	Multiple Choice	8.3.3.A	1	D	3	Supporting
7	Multiple Choice	8.4.12.C	1	D	4	Supporting
8	Multiple Choice	8.3.7.B	1	В	3	Readiness
9	Multiple Choice	8.2.8.A	1	С	2	Supporting
10	Drag and Drop	8.3.3.C	2	3x, 3y See Appendix 1.2	3	Readiness
11	Multiple Choice	8.2.4.B	1	В	2	Readiness
12	Multiple Choice	8.3.6.A	1	С	3	Supporting
13	Multiple Choice	8.2.5.F	1	В	2	Supporting
14	Drag and Drop	8.3.8.D	2	120°, 60°, 60° See Appendix 1.3	3	Supporting
15	Multiple Choice	8.2.4.C	1	С	2	Readiness
16	Multiple Choice	8.4.12.D	1	A	4	Readiness
17	Match Table Grid	8.3.10.B	2	Preserves Congruence, Preserves Congruence, Does Not	3	Supporting

				Preserve Congruence See Appendix 1.4		
18	Multiple Choice	8.2.8.C	1	А	2	Readiness
19	Multiple Choice	8.3.7.C	1	D	3	Readiness
20	Multiple Choice	8.3.10.C	1	С	3	Readiness
21	Multiple Select	8.2.5.G	2	(3, -6), (-2, 4) See Appendix 1.5	2	Readiness
22	Multiple Choice	8.3.7.D	1	А	3	Supporting
23	Multiple Choice	8.2.5.E	1	В	2	Supporting
24	Multiple Choice	8.4.12.D	1	С	4	Readiness
25	Equation	8.3.7.B	1	7,160 See Appendix 1.6	3	Readiness
26	Multiple Choice	8.2.5.H	1	В	2	Supporting
27	Multiple Choice	8.1.2.C	1	С	1	Supporting
28	Multiple Choice	8.3.3.C	1	D	3	Readiness
29	Inline Choice	8.2.4.C	2	2.5, 4 See Appendix 1.7	2	Readiness
30	Multiple Choice	8.3.7.A	1	С	3	Readiness
31	Multiple Choice	8.2.5.I	1	А	2	Readiness
32	Multiple Choice	8.4.5.C	1	D	4	Supporting
33	Drag and Drop	8.3.7.C	2	Not a right triangle, Right triangle, Right triangle See Appendix 1.8	3	Readiness
34	Multiple Choice	8.2.5.A	1	В	2	Supporting

35	Multiple Choice	8.3.10.C	1	D	3	Readiness
36	Multiple Choice	8.2.4.A	1	D	2	Supporting
37	Multiple Select	8.1.2.D	2	$\frac{\frac{23}{7}}{5}, \sqrt{10}$ See Appendix 1.9	1	Readiness
38	Multiple Choice	8.2.8.C	1	А	2	Readiness
39	Multiple Choice	8.4.5.D	1	С	4	Readiness
40	Multiple Choice	8.2.4.B	1	D	2	Readiness

STAAR Spring 2024 GRADE 8 Math Appendix

1.1

The table shows several pairs of x- and y-values for a linear relationship.

x	y
-4	- 1
4	5
8	8
12	11

Create an equation in slope-intercept form that can be used to model this relationship.

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



1.2

Triangle PQR is dilated with the origin as the center of dilation to create triangle P'Q'R'.



Complete the rule to represent the dilation from triangle PQR to triangle P'Q'R'.

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



The figures shown each have a set of parallel lines intersected by a transversal.



Based on the figures, what are the measures x, y, and z in degrees?

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

30° 50° 60° 100° 120° 150°

Angle Measures				
Unknown	Value			
x	120°			
У	60°			
Z	60°			

1.4

A figure on the coordinate plane is transformed to create a new figure.

Determine whether each transformation preserves or does not preserve congruence.

Select the correct answer in each row.

	Preserves Congruence	Does Not Preserve Congruence
A reflection across the y-axis		
A rotation of 180° counterclockwise with the origin as the center of rotation		
A dilation by a scale factor of 0.5 with the origin as the center of dilation		<

1.5

A segment is graphed on the grid.



Points will be plotted on the grid with the segment to show y as a function of x. Which ordered pairs can be added to the grid to show y as a function of x?

Select TWO correct answers.

✓ (3, - 6)
□ (-1,6)
□ (1, - 6)
□ (0, 2)
☑ (-2, 4)

1.6

A diagram of a toy box is shown. Its measurements are given in inches.



What is the total surface area of the toy box in square inches?

Enter your answer in the space provided.

7160			
$\bullet \bullet \bullet$	• • •		
1	2	3	
4	5	б	
7	8	9	
	0		
	-	<u>-</u>	

1.7

The table shows a linear relationship between the variables x and y.

x	y
5	16.5
7	21.5
11	31.5

What are the slope and y-intercept of the linear relationship?

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

The slope of the linear relationship is 2.5

🗘, and the *y*-intercept is 4

٥.

1.8

Determine whether the triangle with each set of side lengths is a right triangle or not a right triangle.

Move the correct answer to each box in the table. Each answer may be used more than once.

Right triangle Not a right triangle

Triangle Classification				
Lengths (centimeters)	Type of Triangle			
6, 8, 9	Not a right triangle			
10, 24, 26	Right triangle			
24, 45, 51	Right triangle			

1.9

Which numbers have a value greater than π ?

Select TWO correct answers.

$\square \frac{8}{3}$
3.14
و√ □
☑ √10