

PS 89 Dr Lydia T Wright School Of Excellence

MATH GRADE 8: MAE8G 1 MATH GRADE 8

GRADE 8 MATH WORKOUT SET IV

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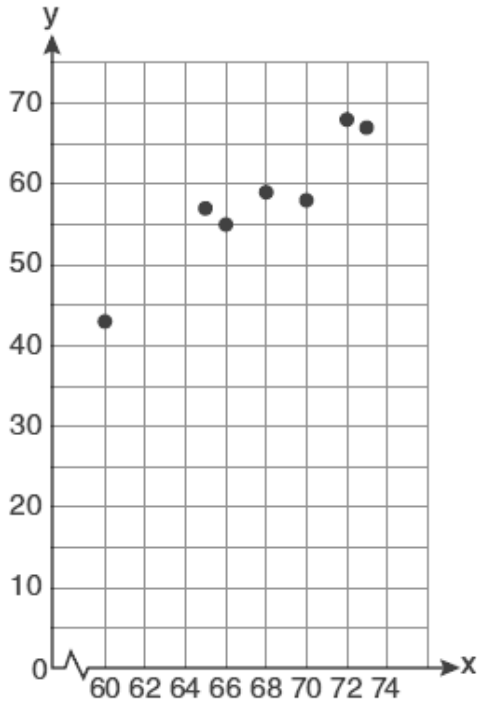
Name: _____

Score: / 100

Question 1

/ 1

A set of data is graphed on the scatter plot below.



This scatter plot shows

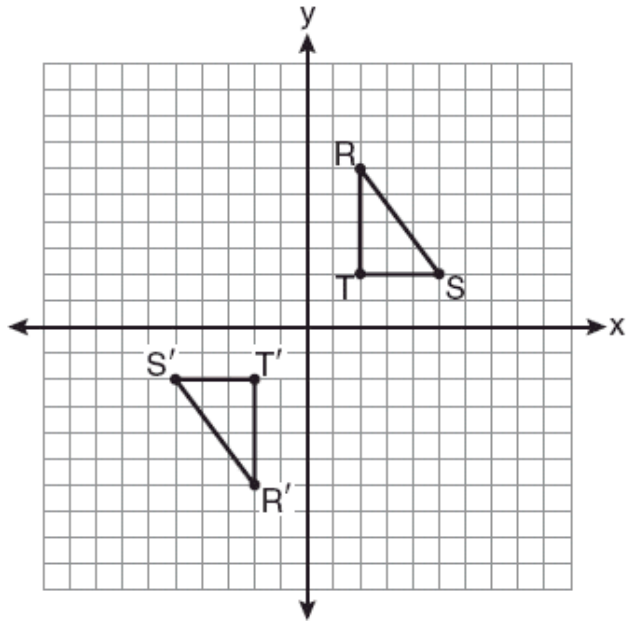
- no correlation
- positive correlation
- negative correlation
- undefined correlation

Name: _____

Question 2

/1

As shown on the graph below, $\Delta R'S'T'$ is the image of ΔRST under a single transformation.



Which transformation does this graph represent?

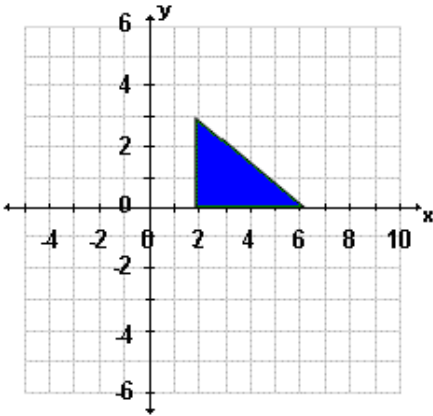
- glide reflection
- line reflection
- rotation
- translation

Name: _____

Question 3

/1

If you translate the image two units up and three units right, what are the coordinates of the new image?



- (2, 0), (2, 3) and (6, 0)
- (4, 3), (4, 6) and (8, 3)
- (5, 2), (5, 5) and (9, 2)
- (2, 2), (2, 5) and (6, 2)

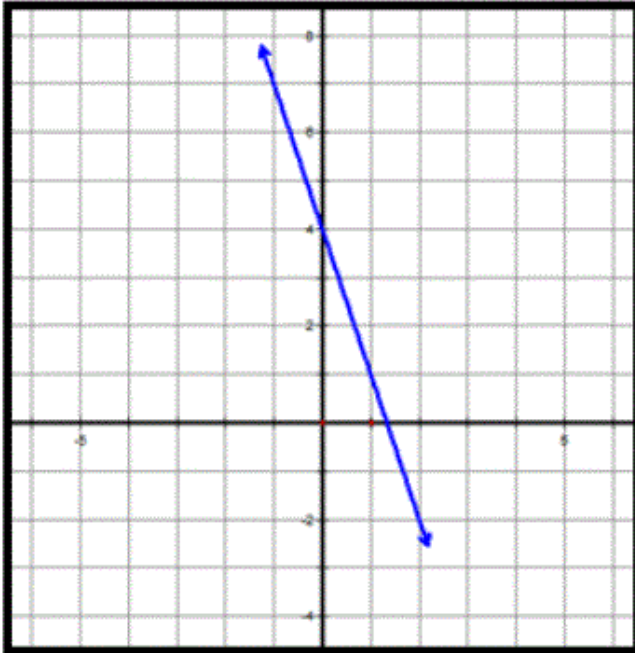
Name: _____

Question 4

/1

Consider the two linear functions below:

Function #1



Function #2

x	y
0	8
2	9
3	9.5
6	11

What is true about the y -intercept of Function 1 and Function 2?

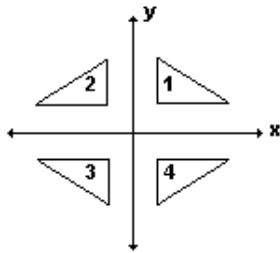
- The y -intercept of both functions is positive.
- The y -intercept of both functions is negative.
- The y -intercept of Function 1 is positive and the rate of change of Function 2 is negative
- The y -intercepts of both functions is equal.

Name: _____

Question 5

/1

in the diagram, which triangle is the image of $\Delta 2$ after a reflection in the x-axis?



- $\Delta 1$
- $\Delta 2$
- $\Delta 3$
- $\Delta 4$

Question 6

/1

The expression $3^2 \cdot 3^3 \cdot 3^4$ is equivalent to

- 27^9
- 27^{24}
- 3^9
- 3^{24}

Name: _____

Question 7

/1

What is the product of $-6x^3$ and $2x^5$?

$-4x^8$

$-12x^8$

$-12x^{15}$

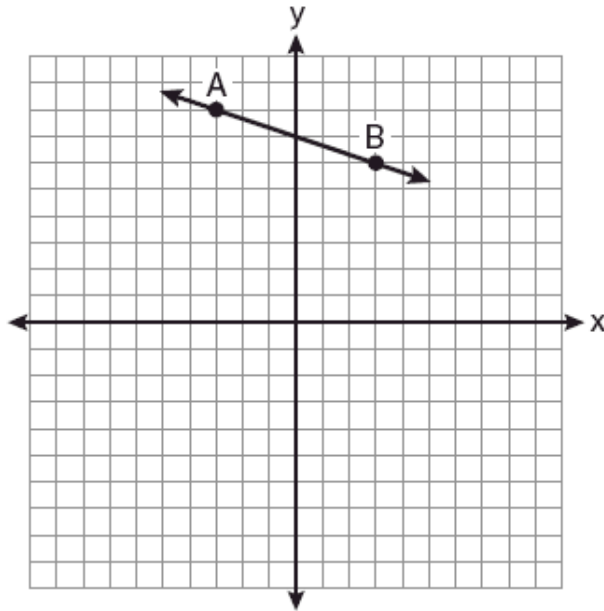
$-4x^{15}$

Name: _____

Question 8

/1

What is the slope of the line passing through the points A and B , as shown on the graph below?



- 3
- 1/3
- 3
- 1/3

Name: _____

Question 9

/1

$\frac{(-2)^4}{(-2)^8}$ can also be expressed as

- 1/16
- 1/8
- 1/8
- 1/16

Question 10

/1

Solve for x:

$$\frac{7x}{10} + 2 = 16$$

- 2
- 2
- 20
- 70