e
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**Original Score** 



I can find the slope from a graph or a pair of ordered pairs.







*m* = \_\_\_\_\_

*m* = \_\_\_\_\_

Find the slope from the set of points given below by using the slope formula:  $m = \frac{y_2 - y_1}{x_2 - x_1}$ .

3. (-12, -5) and (0, 8)

4. (1, 5) and (3, -3)

*m* = \_\_\_\_\_

Graph these points on the line below. Find the slope of the line by using your graph.
(2, 2) and (0, 4)



*m* = \_\_\_\_\_

6. Prove your slope is correct by using the slope formula.

Slope from formula: \_\_\_\_\_

Slope from graph: \_\_\_\_\_

Name \_\_\_\_\_

## Math 8 – Unit 3 Extra Practice

I can write and identify the equation of a line given a graph or by graphing a set of ordered pairs.







Find the equation of the line that passes through the following set of points.

5. (1, 3) and (3, 7)



6. (2, 6) and (6, 4)



Period \_\_\_\_\_

Original Score

## Math 8 – Unit 3 Extra Practice

*I* can compare and analyze different linear forms.

## 1. Compare the information about the number of push-ups below:

Stephanie:



is the student who did the greatest amount of push-ups per minute

is the student who did the least amount of push-ups per minute

Original Score

2. Compare the scenarios to determine which represents a greater collection of cans per day.





3. Compare the scenarios to determine which represents a greater speed.

Scenario 1:





y = 22xx is time in hours y is distance in miles

Explain which scenario represents a greater speed.

Name \_\_\_\_\_

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Period _____
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Original Score

## Math 8 – Unit 3 Extra Practice

I can identify and analyze proportional relationships using slope triangles.

- 1. In order for a relationship to be proportional, the slope must be [constant | not constant] and the starting value must be \_\_\_\_\_\_.
- 2. Determine which of the following graphs, tables, and equations represent proportional relationships. Circle the ones that are proportional.



3. On the graph below, draw two slope triangles to find the slope of the given line. Label your triangles A and B and prove that their slopes are the same using equivalent fractions. *Be sure to look at the scale on the graph!* 



4. On the graph below, find the slope of the three triangles and prove that they have the same slope using equivalent fractions. Then, write the equation of the line.



Equation of the Line: \_\_\_\_\_