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Sheet 4.0 **Reading Assignment - Slopes of Lines** **Name** _____ **Block** ____

Use pages 138 - 140, do not use the glossary!!!

1. Define: Slope of a line on the coordinate plane

2. Write the formula for slope _____

3. Describe the line when the slope is:

Positive _____ Negative _____

Zero _____ Undefined _____

4. What is the answer to these slope problems? ("final" answer!)

A) $\frac{4-4}{3-8}$ _____ B) $\frac{3-8}{4-4}$ _____ C) $\frac{-6-2}{-4+2}$ _____ (reduce this one)

not $\frac{0}{-5}$!! not $\frac{-5}{0}$!!

5. If the slope of line *p* is zero and the slope of line *q* is undefined, then the lines are: (circle one)
A) parallel B) perpendicular C) not parallel or perpendicular, just intersecting

6. If the slopes of two lines are **equal**, then the lines are _____.

7. When the **product** of the slopes of two lines **equal -1**, then the lines are _____.

8. Fill in the correct number:

A) ¼ times _____ = -1 B) 3 times _____ = -1

C) -2/3 times _____ = -1 D) -5 times _____ = -1

You need OPPOSITE RECIPROCALS - (Flip the fraction and change the sign) !!!!!!!!

9. If the slope of *p* is 4/2 and the slope of *q* is 6/3 then *p* ____ *q* (reduce each fraction first)

10. What is the slope intercept formula? y = _____ (p. 647 - if you don't remember!)

11. Which letter represents the slope of the line? _____ 12. Which letter represents the y intercept? _____

13. What does "y intercept" mean? Where the line meets the .....

Given the equations of line *p* and line *q*:

14. *p*: Y = 2x + 3 m = ____ ← write the slopes
q: Y = 2x - 5 m = ____ ← for both lines.

Then *p* _____ *q* because _____

15. *p*: Y = 2x + 3 m = ____
q: Y = -½x - 5 m = ____

Then *p* _____ *q* because _____

16. *p*: Y = -2/3x + 3 m = ____
q: Y = 3/2x - 5 m = ____

Then *p* _____ *q* because