

NAME:

## UNIT 1 – QUIZ #2 STUDY GUIDE



PART ONE: Solve the equations completely.

1.  $2x + 5 - 6x = 21$

2.  $-33 = 3 + 12y - 3y - 3y$

3.  $17 - 4x = -8x - 7$

4.  $5(1 + 3x) = 2(5x + 15)$

5.  $-3 + 12f = 3(3 + 2f)$

6.  $-4(n + 2) = 8 - 2n$

7.  $-2(4y + 1) = -8y - 2$

8.  $3(5x + 2) = 15x$

*On a scale of 1-5 (One = Need to Study .... 5 = I can teach this stuff!!), how do you feel about solving equations?*

1

2

3

4

5

PART TWO: Solve the following proportions.

$$9. \frac{3}{5} = \frac{x}{35}$$

$$10. \frac{36}{y} = \frac{6}{11}$$

$$11. \frac{9}{7} = \frac{x}{2}$$

$$12. \frac{2}{x} = \frac{10}{(x-4)}$$

$$13. \frac{-5}{7} = \frac{-x}{2x-3}$$

PART THREE: Write the sentence as a proportion then solve.

14. 24 is to  $x$  as 16 is to 2.

PART FOUR: Ratio Word Problem

15. Luke bought 32 kiwi fruit for \$16. How many kiwi fruit can you buy if you only have \$4?



*On a scale of 1-5 (One = I need to study .... 5 = I can teach this stuff!!), how do you feel about ratios and proportions?*

1

2

3

4

5