

Unit 2 HW 19

Name Key

Date _____

Period _____

Multiple Choice Review Sheet

Don's design shop sells bumper stickers for \$2 each, magnets for \$3 each, and charges a \$10 set up fee for the design.

$$2b + 3m + 10$$

- What VOCABULARY term does 10 represent in the expression?
 a. coefficient b. term **c. constant** d. variable
- What VOCABULARY term does 2 represent in the expression?
a. coefficient b. term c. constant d. variable
- What does $3m$ represent in context of the expression?
 a. Three times the number of magnets b. Number of magnets
c. Total cost of magnets d. \$3 for the magnets
- What does b represent in context of the expression?
a. Number of bumper stickers b. Total cost of bumper stickers
 c. Two magnets d. Cost of one magnet
- What line contains the error?

$$4(x + 2) - 5 = 5$$

$$4x + 8 - 5 = 5 \text{ Line 1}$$

$$4x + 13 = 5 \text{ Line 2}$$

$$4x = -8 \text{ Line 3}$$

$$x = -2 \text{ Line 4}$$

- a. Line 1 **b. Line 2** c. Line 3 d. Line 4

- What line contains the error?

$$-2(x - 3) - 3 = 7$$

$$-2x - 6 - 3 = 7 \text{ Line 1}$$

$$-2x - 9 = 7 \text{ Line 2}$$

$$-2x = 16 \text{ Line 3}$$

$$x = -8 \text{ Line 4}$$

- a. Line 1** b. Line 2 c. Line 3 d. Line 4

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7. What property is demonstrated below?

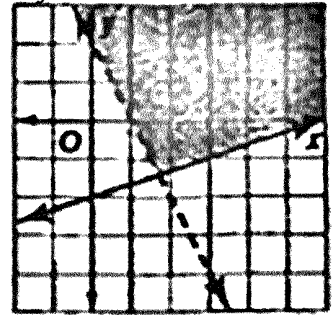
$$\frac{4}{5}x = 2$$

$$5 \cdot \frac{4}{5}x = 2 \cdot 5$$

- a. Addition Property of Equality b. Distributive Property
 c. Multiplication Property of Equality d. Substitution Property

8. What system of inequalities is graphed?

- a. $y \geq \frac{1}{3}x - 2$
 $2x - y > 2$
 c. $y \leq \frac{1}{3}x - 2$
 $2x + y < 2$
 b. $y \geq \frac{1}{3}x - 2$
 $2x + y > 2$
 d. $y \geq \frac{1}{3}x - 2$
 $2x - y \leq 2$



9. Which system of equations matches the following situation:

Four more than half the number of pens equals the number of erasers in my desk. The difference in the number of pens and erasers in my desk is 6.

- a. $2p + 4 = e$
 $p - e = 6$
 b. $p + e = 6$
 $\frac{1}{2}p + 4 = e$
 c. $\frac{p}{e} = 6$
 $\frac{1}{2}p + 4 = e$
 d. $\frac{1}{2}p + 4 = e$
 $p - e = 6$

10. Which conversion would you NOT use to do the following problem (ORDER OF FRACTION MATTERS!!!)?

Convert $\frac{23 \text{ lbs of pizza eaten}}{1 \text{ year}}$ into $\frac{\text{oz}}{\text{min}}$

- a. $\frac{16 \text{ oz}}{1 \text{ lb}}$
 b. $\frac{1 \text{ hr}}{60 \text{ min}}$
 c. $\frac{24 \text{ hrs}}{1 \text{ day}}$
 d. $\frac{1 \text{ yr}}{365 \text{ days}}$

11. Simplify the expression.

- a. $\frac{3}{10x^3y}$
 b. $\frac{9x^3y^3}{10x^3}$
 c. $\frac{(6x^2y^3)^2}{40x^7y^6} = \frac{9}{10x^3}$
 d. $\frac{3}{10x^5y^3}$

12. Write the equation of the line passing through (-2,5) and (4,-7).

- a. $y = -\frac{1}{2}x + 4$
 b. $y = -2x + 1$
 c. $y = -\frac{1}{2}x + 3$
 d. $y = -2x + 9$

13. Which of the following matches the formula for this sequence? -12, 15, -18.75 ...

- a. $a_n = -12 * (-0.8)^n$
 b. $a_n = -12 * (-1.25)^n$
 c. $a_n = 9.6 * (-0.8)^n$
 d. $a_n = 9.6 * (-1.25)^n$

not on final exam