

Unit 2 HW 19

Name \_\_\_\_\_ 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.

$$2b + 3m + 10$$

1. What VOCABULARY term does  $10$  represent in the expression?  
a. coefficient    b. term    c. constant    d. variable
2. What VOCABULARY term does  $2$  represent in the expression?  
a. coefficient    b. term    c. constant    d. variable
3. 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
4. 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
5. 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

6. 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?

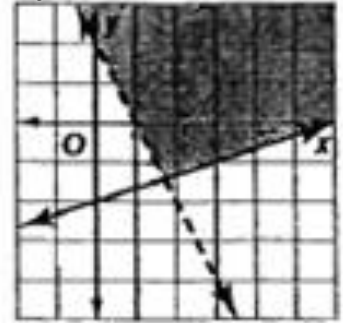
$$\frac{4}{5}x = 2$$

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

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

8. What system of inequalities is graphed?

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



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

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.  $\frac{9}{10x^3}$       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?  $-12, 15, -18.75 \dots$

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