Math 7CP Name _____

Expressions and Equations

Answer the following questions using your Unit 3 Vocabulary chart.

1. What is the difference between an *expression* and an *equation*? Give an example of each.

2. Give an example where the Distributive Property is used correctly.

3. What is a common mistake students make when using the Distributive Property?

4. Regroup the terms listed below into three groups of *like terms*.

$$3x^2, -4y, 6, 10y, y, 18, -8x^2$$

Simplify the expressions by using the Distributive Property and combining like terms (if possible).

5. 2(–3b – 9) + 10

6. 5r – 10r

7. 5 + 7 + 11p – 2p

8. What are the values of ***n*** that would make the following equations true?

   a. (***n***y + 1) + (6y + 1) = (10y + 2)

   b. (4x + 5) – (***n***x + 6) = (–6x – 1)

   c. (***n***z) + (***n***z + 17) = (10z + 17)

Solve each of the following equations.

9. –3(b – 9) = –27

10. 5x + 7 = 8

11. 3(x + 1) + 5x – 5 = 14

12. 2(x – 1) – 7x = 13

13. 18 = –6(x – 1) + 7