Chapter 1-9 Review

1. A tree grows one and three-fourth feet per year. How long will it take the tree to grow from a height of 16 ¾ feet to a height of 32 ½ feet?

2. Point A and Point B are 6 units apart. The coordinates of Point A are (5, -3). The x-coordinate for Point B is 5. What are the possible coordinates for Point B?

3. In the expression 3x + y + -7.
   What are the terms in the expression? What are the coefficients? What are the constants?

4. Simplify the expression 4k – 3r + 5x – 8k + 2x + r.

5. Solve the expression: 7 + 9(6 – 2) ÷ 3.

6. Write the algebraic expression for "13 more than the product of 4 and k."
   What would the value be for the expression is k = 2?

7. Give an example of each property listed below:
   A. Distributive Property
   B. Commutative Property
   C. Associative Property
   D. Additive Identity Property
   E. Multiplicative Identity Property

8. Emily counted the candies she had in a jar. She discovered that one-fourth of the candies were red. If she had 58 red candies, write an equation two ways where "x" represents the total number of candies in the jar?

9. Which statements are true below?
   A. $z + z + z + z = z^4$
   B. 3j + 5 - j = 2j + 5
   C. $x \bullet x = 2x$
   D. 4(2x + 5) = 8x + 5
   E. $h^4 = h \bullet h \bullet h \bullet h$
   F. r + r + r = 3r

10. Which of the following values for Y and S make the statement Y = S true? Select all that apply.
    A. Y = 13 + 4, S = -4 + 13
    B. Y = 15 - 6, S = 13 + -4
    C. Y = 8 - -3, S = 5 + 6
    D. Y = -6 + -3, S = 3 - 12
    E. Y = 0 + 6, S = -3 + -3

11. What values of "y" make the inequality true?
    24 - y > 2

    A. 0   B. -10   C. 10   D. 20   E. 30

12. Solve the following equation.
    (2/3) x = 4/7

13. Indicate which set of points, when graphed, would lie on the same line. Select all that apply.
    A. (3, 3) , (5, 5), (8, 8)
    B. (-1, 1), (1, 4), (2, 7)
    C. (-2, -3), (-3, -6), (-4, -8)
    D. (1, 6), (2, 3), (3, -1)
    E. none of the set of points are correct