**Chapter 6 Expressions – Study Guide**

1. Write an expression that is equivalent to 6 times 23.
2. What is the value of 2 + 42 × 6 − 10?
3. Simplify: ($\frac{3}{4}$)3
4. What is the value of (62 + 7)8 − 10 ÷ 2 + 11?
5. What is 64 ÷ (20 − 18)2 simplified?
6. Write an expression that represents 7 times the sum of a number n and 14.
7. Write an expression is the same as twenty less than one-half a number, n?
8. Name all of the coefficients in the expression 2x – y + 4z + 6.
9. What is , when x = 5?
10. If x = 6 and y = 3.5, what is the value of the expression 3x + 2y + 4x?

Simplify:

1. 6(16x – 4) 12. 4(2s + 3t + 2)?
2. What term needs to be added to Expression 2 to make it equivalent to Expression 1?

Expression 1: 6y + 5 + 2x + y

Expression 2: 3x + 7y + 5

1. What is the commutative property of addition? Give an example.
2. Factor 24x + 16y
3. Factor 50y – 2x
4. Identify all of the like terms, coefficients, and constants in the expression below.  Then, simplify the expression.  When writing your answer use the numbering and format below:

3x + 26 – y + 11 + 7x + 3f

1. List all sets of like terms

2. List all coefficients

3. List all constants

4. Simplified expression

1. Write a simplified expression represents the perimeter of the rectangle.

3x + y +7

2x