**Simplifying Variable Expressions Notes Name \_\_\_\_\_\_\_\_\_\_**

**7a + 4a + 3b – 6**

In the expression above, \_\_\_\_\_\_ is an example of a constant

In the expression above, \_\_\_\_\_\_, \_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_ are examples of coefficients

In the expression above, \_\_\_\_\_\_ and \_\_\_\_\_\_\_\_ are like terms

* When combining like terms, take the symbol(s) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the term.

**1.** 3x + 4x + 5y – 8y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **2.** -2x – 5y + 5x = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**3.** 2(x – 4) + 3 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **4.** 5(2y + 1) – 7y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**5.** 8c + 5(c – 3) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **6.** 2(4 – 3x) – (-3) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**7.** -7x + 3(x – y) + 5y = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **8.** 3(9x – 4) – 4(5x – 3) = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

There aren’t any “You Trys” so make sure you understand the information from above (especially #8) before completing the practice on the back. The practice will be checked in class.

Practice:

1. -8x + 3 – 8x + 5
2. 5x + 4y – 17x + (-4y)
3. 3(2x + 4y) – 4y
4. -5(2x – 8y) + 3x +18y
5. 4(2x + 2y) – (3x +3y)
6. -5(-3x – 8y) – 4(3x – 5y)