Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 7

Chapter 4 – Expressions & Equations Notes #12

**More with Combining Like Terms**

 **VIDEO - “Combining Like Terms Rap”
 http://www.youtube.com/watch?v=3KUJYrvU\_cc**You will find these expressions in the video. Simplify them!
3x + 4 + 2x – 2 = \_\_\_\_\_\_\_

3x + 4x² Why can’t these be combined? \_\_\_\_\_\_\_\_\_

9 + 3x + 8 = \_\_\_\_\_\_\_\_\_\_\_\_\_
x + 4x = \_\_\_\_\_\_\_\_\_

3x² - 5xy + 2x² - 3xy = \_\_\_\_\_\_\_\_\_\_\_\_\_

Examples: Simplify the following by combining like terms.

1. 4n + (-7n)
2. -4x - 6x
3. -9n + 3n
4. -8a - (-3a)

Your Turn

1. -8x + 12x
2. -3a + (-3a)
3. 2n - 9n
4. 7n + (-3n)

Examples: Simplify the following by combining like terms

1. 6x + 4 - 3x + 7
2. 8x + x + 11 + 3x + 1
3. -3x – (-2x)
4. -3u - $2\frac{3}{4}$ + 2u + $1\frac{1}{4}$
5. 8a + 10 – 12a – 6
6. 12c – 4c – (-11c)
7. - $\frac{1}{5}$y + $\frac{2}{5}$y
8. -5.5x – 4 – 7.5x - 2

**Real Life Extension:**

You are buying concert tickets. The ticket price is
$37 per ticket, and a service fee of $6.50 per ticket, plus a flat processing fee of $3.30.
Let *t* = the number of tickets and write an expression to show the total cost. \_\_\_\_\_\_\_\_\_\_\_\_\_

Your Turn:

1. 4ab + 9 + 3ab + 4a
2. -20y - 2y
3. 9x – (-5x)
4. -23x + 10x
5. -2x – 6 + 10x – (-2)
6. $\frac{1}{6}$ + 13.8x + $\frac{4}{6}$ – 7.1x

 **Real Life Extension:**

You are buying fruit from a fruit stand. It costs $2.99 per pound for apples plus an additional $0.10 per pound for the storage container.
Let *p* = the number of pounds and write an expression to show the total cost. \_\_\_\_\_\_\_\_\_\_\_\_\_\_