Systems of Equations   Name_____
Substitution in Word Problems Notes   Date_____Period_____

For each situation set up a system of equations and solve using substitution.

1.   The perimeter of a rectangle is 68 cm. The length of the rectangle is 4 more than twice
        the width. Find the dimensions of the rectangle.

        A) Set up a system of equations

        B) Solve to find the length and width.

2.   One number is 12 less than three times another number. Their sum is 188. Write two
        equations that would be used to find the two numbers.

        A) Set up a system of equations

        B) Solve to find the two numbers.

3.   Chef Katrina uses 1 cup of pecans for every 3 cups of peanuts in her Merry Munch Mix. One cup of pecans costs $4.99 and one cup of peanuts cost $2.25. If she sells her Merry Mix for $35.22, how many cups of each type of new were in the Merry Munch?

        A) Set up a system of equations

        B) Solve to find the how many cups of peanuts and pecans were used.

4.   In his coin box, Brian has 12 fewer nickels than dimes. The value of his nickels and dimes is $2.40. Write a system of equations that can be used to find how many nickels and dimes Brian has.

        A) Set up a system of equations

        B) Solve to find the how many nickels & dimes were in the coin box.