Name_____

SYSTEM OF EQUATIONS-WORD PROBLEMS #5

Directions: Find the answers to each situation below by setting up and solving a *system of equations*.

1) The sum of a number, *x*, and another number, *y*, is 62. *y* is 16 less than *x*. Find *x* and *y*.
   $x + y = 62$
   $y = x - 16$

   x = _____

   y = _____

2) The sum of a number, *x*, and another number, *y*, is 138. *y* is 36 more than *x*. Find *x* and *y*.

   x = _____

   y = _____

3) The sum of a twice a number, *x*, and another number, *y*, is 88. *x* is 14 more than twice the value of *y*. Find *x* and *y*.

   x = _____

   y = _____

4) The sum of five times a number, *x*, and another number, *y*, is 326. The difference of *x* and three times the value of *y* is 2. Find *x* and *y*.

   x = _____

   y = _____

5) The sum of half of a number, *x*, and another number, *y*, is 54. *x* is 18 more than *y*. Find *x* and *y*.

   x = _____

   y = _____

6) The sum of a three times a number, *x*, and twice another number, *y*, is 6. *x* is 12 more than *y*. Find *x* and *y*.

   x = _____

   y = _____

7) The sum of a twice number, *x*, and twice another number, *y*, is -78. The value of *x* is one less than the value of *y*. Find *x* and *y*.

   x = _____

   y = _____

8) The sum of a number, *x*, and the opposite of another number, *y*, is -21. *y* is 3 more than three times the value of *x*. Find *x* and *y*.

   x = _____

   y = _____