Name_____

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 62.5. The difference of *x* and *y* is 20.5. Find *x* and *y*.
   x + y = 62.5
   x - y = 20.5

   x = 41

   y = 21.5

2) The sum of a number, *x*, and another number, *y*, is 101. The difference of *x* and *y* is 163. Find *x* and *y*.

   x = 132

   y = -31

3) The sum of a twice a number, *x*, and another number, *y*, is 1. The difference of *x* and *y* is -0.25. Find *x* and *y*.

   x = 0.25

   y = 0.5

4) The sum of five times a number, *x*, and another number, *y*, is 0. The difference of *x* and *y* is 72. Find *x* and *y*.

   x = 12

   y = -60

5) The sum of half of a number, *x*, and another number, *y*, is -28. The difference of *x* and *y* is 4. Find *x* and *y*.

   x = -16

   y = -20

6) The sum of a three times a number, *x*, and half of another number, *y*, is 96. The difference of *x* and *y* is 60. Find *x* and *y*.

   x = 36

   y = -24

7) The sum of twice a number, *x*, and twice another number, *y*, is 118. The value of *y* is one less than twice the value of *x*. Find *x* and *y*.

   x = 20

   y = 39

8) The sum of a number, *x*, and the opposite of another number, *y*, is 66. The difference of *x* and *y* is also 66. Find *x* and *y*.

INFINITE SOLUTIONS