Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Word Problems: Systems of Equations**

*Be sure to state what x and y represent. ☺*

1. Margie is responsible for buying a week's supply of food and medication for the dogs and cats at a local shelter.  The food and medication for each dog costs twice as much as those supplies for a cat.  She needs to feed 164 cats and 24 dogs.  Her budget is $4240.  How much can Margie spend on each dog for food and medication?

2. A total of 78 seats for a concert are sold, producing a total revenue of $483. If seats cost either $2.50 or $10.50, how many $2.50 seats and how many $10.50 seats were sold?

3. The sum of two numbers is 90. The larger number is 14 more than 3 times the smaller number. Find the numbers.