Systems of Equations: Word Problems

Name:_____

Directions: Solve each word problem by following the steps. **Show all work.**

1. Roger wants to paint a few rooms in his house, so he bought 6 gallons of paint and 4 paintbrushes for a total of $68. Later he bought 5 more gallons of paint and 2 more paintbrushes for $54. How much does one gallon of paint cost and one paintbrush cost?

2. Rhonda owns a small business. One day, she needed some paper and file folders. She bought 4 boxes of paper and 9 boxes of file folders, paying a total $95. A month later, she bought another 5 boxes of paper and 3 boxes of file folders, paying just $61. How much do each box of paper and file folders cost?

3. Roger and Lois drove to visit some friends, traveling 549 miles. Roger drove twice plus 33 miles more than Lois. How many miles did they each drive?

4. Joe owns a small coffee business on the local college campus. He sells coffee in 2 sizes: large and small. The large is $2 and the small is $1. Yesterday he sold a total of 205 cups of coffee, making $325 in revenue. How many of each size did Joe sell yesterday?

5. The yearbook staff is putting an order in for 780 yearbooks. The students had a choice between the standard yearbook, which costs $20, or the deluxe edition, whish is $30, with a dust cover and extra autograph pages. The total cost of the order was $19,200. How many of each type of yearbook was ordered?

6. For a school fund raiser, the Math Team sold cheese and pepperoni pizzas. Each cheese pizza was $5.00 and each pepperoni pizza was $7.00. The sold a total of 200 pizzas, making $1,240. How many of each pizza did they sell?

7. Mark orders office supplies for his company. One day he ordered 6 boxes of pens and 12 boxes of pencils, costing $30. The next week he ordered another 8 boxes of pens and 2 boxes of pencils, this time costing $19. How much does each box of pens and pencils cost?

8. Margaret owns a business garden shop. She sells 2 types of vases for plants: a large one for $7.00 and a small one for $4.50. Last month she sold 111 vases for $654.50. How many of each did she sell?