

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

**Chapter 8: Systems of Linear Equations -- Word Problem Practice**

1. There were 84 tickets sold for a school play. If adults were charged \$5 and students \$3 and the total receipts was \$300, how many adults and students came to the play? Verify your solution.

2. Home Depot sells large cans of paint for \$30.50 and small cans of paint for \$10.40. The store has 200 cans of paint worth 3650.40. Write a linear system to model this situation. How many of each size of can do they stock? Verify your solution.

3. A gift shop sold hand-made moccasins. One order of 4 pairs of children's moccasins and 3 pairs of women's moccasins cost \$244.65. Another order of 2 pairs of children's moccasins and 4 pairs of women's moccasins cost \$229.70. What is the cost of a pair of each type of moccasin? Verify your solution.

4. Two numbers have a difference of 45. The sum of three times the smaller and twice the larger is 270. Find the two numbers. Verify your solution.

5. When three numbers are added in pairs, the sums of the pairs are 27, 34, and 45. What are the three numbers? Verify your solution.

6. Your class raised \$195 by collecting 3000 items for recycling. They received 5¢ for each pop can and 20¢ for each large plastic bottle. How many pop cans and large bottles did your class recycle? Verify your solution.