Algebra 1B: Mrs. Tilus Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 6- Day #9: Solving Systems Applications- Day 1

Solve the following word problems as a system of equations.

1.) You have a total of 65 coins, all nickels and dimes, which have a total value of $5.50. How many of each type of coin do you have?

2.) The sum of two number is 114. The larger number is 6 less than three times the other. What are the two numbers?

3.) At an all-you-can-eat fundraiser that you are sponsoring, adults pay $6 each and children pay $4 each. 212 people attend and you raise $1128. What is the total number of adults and children attending?

4.) You have a jar full of nickels and dimes that contains 386 coins. The total value of the coins is $29.35. How many of each coin do you have?

5.) The sum of two numbers is 134. The difference of the same two numbers is 28. What are the two numbers?

6.) Adult tickets to a play cost $22. Tickets for children cost $15. Tickets for a group of 11 people cost a total of $228. The play starts at 8 pm. How many adults and how many children were in the group?

7.) Sarah invested $15000. She put part of it in stocks that paid 4% per year, and the remainder in a bonds that paid 5% per year. After one year, the total interest was $690. How much did Sarah invest at each rate?

8.) Jenny bought 5 apples and 3 bananas for $4.90. Sam bought 3 apples and 5 bananas and paid $5.50. What is the cost for a single banana and a single apple?