**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**CC Algebra**

**Systems of Equations Word Problems – Solving Algebraically**

1. The sum of two numbers is 5. The larger number is 7 more than the smaller number.
Find the numbers.
2. The owner of a men's clothing store bought six belts and eight hats for $140. A week later, at the same prices, he bought nine belts and six hats for $132. Find the price of a belt and the price of a hat.
3. There were 100 tickets sold to last night's concert. Some of the tickets were sold to students at $2 and the rest were sold to adults at $2.50. The booster club collected $220 in ticket sales. How many of each type of ticket were sold?
4. You have 17 nickels and dimes in your pocket. The total value is $1.10. Write and solve a system of linear equations to find the number x of nickels and the number y of dimes.
5. The sum of two numbers is 36. Their difference is 24. Find the numbers.
6. The sum of two numbers is 104. The larger is one less than twice the smaller number. Find the numbers.
7. A baseball manager bought 4 bats and 9 baseballs for $76.50. On another day, she bought 3 bats and 1 dozen baseballs at the same prices for $81.00. How much did she pay for each bat and each baseball?
8. The cost of 3 pizzas and 4 sandwiches at Ralph’s Deli is $68. The cost of 3 pizzas and 7 sandwiches is $92. What is the cost of one pizza and one sandwich?