

## Algebra I Worksheet #5 Unit 9 page 1

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Write a system of **two equations** with **two variables** and solve each of the following problems. Show your **complete** solution **neatly organized**.

1. The sum of two numbers is 8. The first number is one less than two times the second. What are the numbers?

2. The sum of two numbers is 7. The first number is one more than three times the second. What are the numbers?

3. The sum of two numbers is 8. Their difference is 2. What are the numbers?

4. The sum of two numbers is 17. Their difference is 5. What are the numbers?

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Write a system of **two equations** with **two variables** and solve each of the following problems. Show your **complete** solution **neatly organized**.

5. A coin collection consists of ordinary dimes and nickels and is worth a total of \$5. If there are 65 coins in the collection, then how many coins of each type are there?

6. A coin collection consists of ordinary dimes and quarters and is worth a total of \$4.30. If there are 22 coins in the collection, then how many coins of each type are there?

7. Jim and Tom earned a total of \$850. If Jim earned ten dollars less than three times the amount earned by Tom, then how much did each person earn?

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Write a system of **two equations** with **two variables** and solve each of the following problems. Show your **complete** solution **neatly organized**.

8. Sue and Mary earned a total of \$700. If Sue earned forty dollars more than twice the amount earned by Mary, then how much did each person earn?

9. Coffee worth \$1.30 per pound is mixed with coffee worth 90 cents per pound to produce a 50 pound blend worth \$1.14 per pound. How many pounds of each type of coffee is used?

10. Coffee worth \$1.50 per pound is mixed with coffee worth \$1.20 per pound to produce a 60 pound blend worth \$1.26 per pound. How many pounds of each type of coffee is used?