

## Module 5 – Systems of Linear Equations and Inequalities

### Lesson 4 – Application: Systems of Linear Equations in Two Variables

Name \_\_\_\_\_

Solve the following problems. Show your solution.

#### Number Problems

1. The sum of two numbers is 15. The difference of the two is 7. What are the two numbers?
2. The sum of twice one number and three times another number is 23. The product of the two numbers is 20. What are the two numbers?
3. The difference of two numbers is 9 and their sum is 37. Find the two numbers.

#### Digit Problem

1. The sum of the digits of a two-digit number is 9. The number is 5 less than 10 times the units digit. Find the number.