

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.

Digit Problems

1. A two-digit number is increased by 54 when the digits are reversed. If the sum of the digits of the original number is 12, what is the number?
2. The sum of the digits of a two-digit number is 6. The number with its digits reversed is 6 times the original tens digit. Find the number.

Geometry Problems

1. The length of a rectangle is three more than the width. The perimeter is 94. What is its area?
2. The length of the rectangle is 3 feet more than three times the width. The perimeter is 33 feet. Find the length and width of the rectangle.