

Name : _____

Solving Systems of Equations Word Problems Worksheet

Answers

- 1 The length of a rectangle is equal to twice the width. Find the dimensions of the rectangle if the perimeter is 88 centimeters.

Ans: Width = 14.66 centimeters, length = 29.33 centimeters

- 2 A flour mill mixes 40% whole wheat flour with 70% whole wheat flour to obtain 60% whole wheat flour mixture. If 45 kg of the final product was obtained, how much of each type of flour was used?

Ans: Quantity of 40% wheat flour = 15 kg, Quantity of 70% wheat flour = 20 kg

- 3 Flying with the wind a plane flies at 158 km/hr. Against the wind, the plane flies at only 112 km/hr. Find the speed of the plane in still air and the speed of the wind.

Ans: Speed of the plane = 135 km/hr, Speed of the wind = 23 km/hr

- 4 Sam rents cars for \$100 a day and vans for \$200 a day. One day, he rented a total of 30 vehicles, and made \$4000. Find the number of cars and vans Sam rented.

Ans: 20 cars and 10 vans