

Solving System of Equations – Practice

Answer Key

1. Let x = the number of toppings Let y = price per pizza

$$6.80 + 0.9x = y$$

$$7.30 + 0.65x = y$$

$$x = 2$$

$$y = 8.60$$

There needs to be two toppings on each pizza for them to equal in price at \$8.60.

2. Let x = the number of CDs sold last week Let y = the number of CDs sold this week

$$x = 6 + 3y$$

$$x + y = 110$$

$$x = 84$$

$$y = 26$$

Last week the store sold 84 CDs. This week, they sold 26.

3. Let x = the length of the rectangle Let y = the width of the rectangle

$$2x + 2y = 86$$

$$x = 3y$$

$$x = 32.25$$

$$y = 10.75$$

The rectangle has a length of 32.25 and a width of 10.75

4. Let x = the number of sundaes sold Let y = the number of banana splits sold

$$2x + 3y = 156$$

$$y + 8 = x$$

$$x = 36$$

$$y = 28$$

The store sold 36 sundaes and 28 banana splits

5. Let x = the cost of one piece of fudge Let y = the cost of one piece of bubble gum

$$5x + 3y = 5.70$$

$$2x + 10y = 3.60$$

$$x = 1.05$$

$$y = 0.15$$

One piece of fudge cost 1.05 and one piece of bubble gum cost 0.15.