

Name: Loz

Date: 2 - 3 - 2021

-2 $\frac{10}{12}$

Worksheet 3 Real-World Problems: Ratios

Solve. Show your work.

1. There are 40 student volunteers at a charity fundraiser. Of the volunteers, 12 are boys.

a. How many student volunteers are girls?

$$40 - 12 = 28$$

28 are girls.

- ✓ 2. Find the ratio of the number of boys to the number of girls.

12:28 is the ratio of the number of boys to the number of girls.

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2. Mrs. Roberts bought 48 potatoes and carrots. She cooked all of the 16 carrots for a family meal.

a. How many potatoes did she buy?

She bought 32 potatoes.

$$48 - 16 = 32$$

- b. What is the ratio of the number of carrots to the number of potatoes?

32:16 is the ratio of the number of carrots to the number of potatoes.

32:16

32 potatoes

16 carrots

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Solve. Show your work.

3. The ratio of the number of boys to the number of girls in a fund-raising club is 2 : 3. There are 18 girls in the club. How many boys are in the club?

$$\begin{array}{rclcl} \text{Number of boys} & : & \text{Number of girls} & & \\ = & 2 & : & 3 & \\ \times \boxed{6} & \left(\begin{array}{c} \downarrow \\ \downarrow \end{array} \right) & & \downarrow & \times \boxed{6} \\ = & \boxed{12} & : & 18 & \end{array}$$

12 boys are in the club.

4. A shopkeeper has corn flour and wheat flour. The ratio of the weight of the corn flour to the weight of the wheat flour is 3 : 5. The weight of the corn flour is 21 pounds. What is the weight of the wheat flour?

$$21 \text{ divided by } 3 = 7$$

$$5 \times 7 = 35$$

The weight of the wheat flour is 35 pounds.

21:35

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5. Fiona made a mango shake using mango syrup and milk. The ratio of the amount of mango syrup to the amount of milk was 5 : 8. Fiona used 32 liters of milk. How much mango syrup did Fiona use?

5:8

8 5

32 ?

32 divided by 8 = 4

Fiona uses 20 liters of mango syrup.

$5 \times 4 = 20$

20:32