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.

   b. 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.

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

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?

Number of boys : Number of girls

$$= \quad 2 \quad : \quad 3$$

$\times \boxed{6} \Big(\qquad \Big) \times \boxed{6}$

$$= \boxed{12} : 18$$

_____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 divided by 3 = 7   5 x 7 = 35

The weight of the wheat flour is 35 pounds.

21:35

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   ?

Fiona uses 20 liters of mango syrup.

32 divided by 8 = 4

5 x 4 = 20

20:32