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## **Two-Term and Three-Term Ratios**

MathLinks 8, pages 46-54

## **Key Ideas Review**

Tru	cide whether each of the following statements is true or false. Circle the reach of the statement is false, rewrite it to make it true.				
a) -	True/False A part-to-part ratio compares different parts of several	groups.			
	<b>True/False</b> A part-to-whole ratio compares one part of a group to twhole group.	:he			
c)	True/False A part-to-part ratio can be written as a fraction, decimal, or percent. For example, the ratio of flowers to leaves is 12 or 3, , or %.				
d)	True/False A three-term ratio compares three quantities measured in the same units.				
e)	<b>True/False</b> A two-term ratio compares two quantities measured in the same scale.				

## **Practise and Apply**

- 2. Write each ratio using ratio notation.

  Then, write the ratios in lowest terms.
  - a) Three red tiles compared to nine black tiles.
- b) In a hotel, 23 rooms have a double bed and 9 have a queen-size bed. What is the ratio of double beds to queen-size beds to total beds?

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- c) A bike rack contains 5 road bikes and 15 mountain bikes.
- d) Over two weeks, eight days were cloudy and six were sunny.



- e) The arena schedule lists 10 hockey games, 8 skating classes, and 2 family times. Compare hockey games to total time slots.
- f) The room has 16 chairs and 4 tables. Compare chairs to pieces of furniture.
- 3. Fill in the missing number to make each fraction equivalent.

a) 
$$\frac{1}{3} = \frac{}{6}$$

a) 
$$\frac{1}{3} = \frac{10}{6}$$
 b)  $\frac{1}{3} = \frac{10}{15}$ 

c) 
$$\frac{5}{6} = \frac{12}{12}$$

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$$\frac{5}{6} = \frac{12}{12}$$
 d)  $\frac{40}{50} = \frac{80}{12}$ 

- 4. There are 9 black tiles to 3 white tiles.
  - a) Draw the ratio.
  - b) Write the part-to-part ratio that corresponds with the drawing.
  - c) Write two part-to-whole ratios that correspond with the drawing.
  - d) Write the ratios in part c) as equivalent fractions in lowest terms.

5. What part(s) of this diagram could be represented by each of the following ratios?



- a) 1 to 2
- **b)** 8:12:4
- c) 3:2
- d)  $\frac{12}{24}$
- 6. In a class of 28 students, 20 took band and the rest took choir. Use ratio notation to answer the following.
  - a) What is the ratio of choir members to total students in the class?
  - b) What is the ratio of band members to choir members?
- 7. A mixed cereal contains 150 g of rice, 300 g of wheat, and 400 g of oats. Write the ratio in decimal form to compare the types of grains in the cereal. Show your thinking and round the decimals to the nearest hundredth.