

# Lesson 2 Reteach

## Ratios

A **ratio** is a comparison of two numbers by division. A common way to express a ratio is as a fraction in simplest form. Ratios can also be written in other ways. For example, the ratio  $\frac{2}{3}$  can be written as 2 to 3, 2 out of 3, or 2:3.

### Examples

Refer to the diagram at the right.

1. Write the ratio in simplest form that compares the number of circles to the number of triangles.

$$\begin{array}{l} \text{circles} \rightarrow \frac{4}{5} \\ \text{triangles} \rightarrow \frac{5}{5} \end{array} \quad \text{The GCF of 4 and 5 is 1.}$$

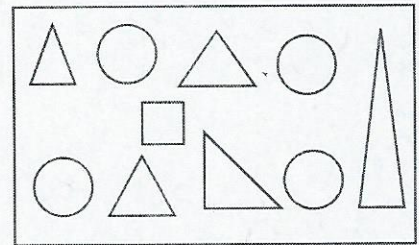
So, the ratio of circles to triangles is  $\frac{4}{5}$ , 4 to 5, or 4:5.

For every 4 circles, there are 5 triangles.

2. Write the ratio in simplest form that compares the number of circles to the total number of figures.

$$\begin{array}{l} \text{circles} \rightarrow \frac{4}{10} \\ \text{total figures} \rightarrow \frac{10}{10} \end{array} \begin{array}{l} \div 2 \\ \div 2 \end{array} = \frac{2}{5} \quad \text{The GCF of 4 and 10 is 2.}$$

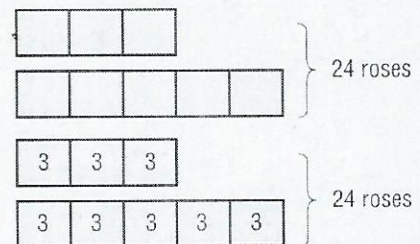
The ratio of circles to the total number of figures is  $\frac{2}{5}$ , 2 to 5, or 2:5.  
For every two circles, there are five total figures.



### Example 3

Divide 24 roses into 2 groups so the ratio is 3 to 5.

Use a bar diagram. Show a group of 3 and a group of 5.



Because there are 8 sections, each section represents  $24 \div 8$ , or 3 roses.

There are 9 roses in the first group and 15 roses in the second group.

### Exercises

Write each ratio as a fraction in simplest form. Then explain its meaning.

- 2 guppies to 6 seahorses
- 12 puppies to 15 kittens
- SPELLING** A sentence has 5 misspelled words and 15 correctly spelled words. Find the ratio of misspelled words to correctly spelled words.

## Lesson 2 Skills Practice

### Ratios

For Exercises 1–10, write each ratio as a fraction in simplest form. Then explain its meaning.

- 3 sailboats to 6 fan boats
- 4 tulips to 6 daffodils
- 5 ducks to 30 geese
- 5 baseballs to 25 softballs
- 6 poodles to 18 beagles
- 10 brown eggs to 12 white eggs
- WALLPAPER** The design on Santana’s wall includes 16 pink stripes and 20 green stripes. Find the ratio of pink stripes to green stripes.
- JAZZ BAND** In the jazz band at Wyatt’s school, there are 15 trumpets and 9 trombones. Find the ratio of trombones to trumpets.
- WILDLIFE PARK** At a wildlife park, Zoey counted 10 lions and 14 tigers. What is the ratio of lions to tigers?
- MAILBOX** In one week, Latrina received 18 letters and 8 bills. What was the ratio of bills to letters?

11. **GYM CLASS** Mr. Riley allowed a class of sixth graders to choose an activity for their gym class. What is the ratio of students playing volleyball to the total number of students? Write the ratio as a fraction in simplest form. Then explain its meaning.

Gym Class Activities	
Activity	Students
Volleyball	12
Softball	21
Soccer	3

12. **FRUIT SALAD** In a fruit salad, there are 12 strawberries, 14 grapes, 6 kiwis, and 4 papayas. Find the ratio of kiwis to the total number of pieces of fruit in the fruit salad. Write the ratio as a fraction in simplest form. Then explain its meaning.