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## 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.

$$
\underset{\text { circles }}{\text { criangles }} \rightarrow \frac{4}{5} \quad \text { The GCF of } 4 \text { and } 5 \text { is } 1 .
$$

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.

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

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.

1. 2 guppies to 6 seahorses
2. 12 puppies to 15 kittens
3. SPELLING A sentence has 5 misspelled words and 15 correctly spelled words. Find the ratio of misspelled words to correctly spelled words.
