## **Get Ready**

## **Using Two-Term Ratios**

A part-to-part ratio compares 1 part of a group to other parts of the same group.

- The ratio of white circles to grey circles is 6:3 or 6 to 3.
- The ratio in lowest terms is 2:1 or 2 to 1.

A part-to-whole ratio compares 1 part of a group to the whole group.

- The ratio of white circles to the total number of circles is 6:9, 6 to 9, or  $\frac{6}{9}$ .
- The ratio in lowest terms is 2:3 or 2 to 3.
- You can write a part-to-whole ratio as a fraction, a decimal, and a percent.
- White circles to total number of circles =  $\frac{6}{9}$  or  $\frac{2}{3}$ , 0. $\overline{6}$ , and 66. $\overline{6}$ %.
- 1. Complete the table. Write the ratio of grey circles to the total number of circles.

	Ratio Notation	Equivalent Fraction in Lowest Terms	Decimal	Percent
a) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2:6		2 ÷ 6 =	decimal × 100 = × 100 =
b) \				

2. Find the missing value to make an equivalent fraction.





- 3. Set up a proportion for each situation.
  - a) On a diagram, 2 cm represents 200 cm. The length of a basketball court is 2800 cm. This length is 28 cm on the diagram.
- b) In a photograph, 1 cm represents 30 cm. In the photo, Daniel is 6 cm tall. His actual height is 180 cm.





**4.** A 12-m telephone pole casts a shadow 4 m long. What is the height of a boy who casts a shadow 0.4 m long?



The height of the boy is \_\_\_\_\_.



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