

## Lesson 2 Reteach

### Compare and Order Rational Numbers

To compare fractions, rewrite them so they have the same denominator. The **least common denominator (LCD)** of two fractions is the **LCM** of their denominators.

Another way to compare fractions is to express them as decimals. Then compare the decimals.

#### Example 1

Which fraction is greater,  $\frac{3}{4}$ , or  $\frac{4}{5}$ ?

**Method 1** Rename using the LCD.

$$\begin{aligned} \frac{3}{4} &= \frac{3 \times 5}{4 \times 5} = \frac{15}{20} \\ \frac{4}{5} &= \frac{4 \times 4}{5 \times 4} = \frac{16}{20} \end{aligned}$$

The LCD is 20.

Because the denominators are the same, compare numerators.

Since  $\frac{16}{20} > \frac{15}{20}$ , then  $\frac{4}{5} > \frac{3}{4}$ .

**Method 2** Graph each rational number on a number line.



The number line shows that  $\frac{4}{5} > \frac{3}{4}$ .

#### Exercises

Replace each  $\bullet$  with  $<$ ,  $>$ , or  $=$  to make a true sentence.

Use a number line if necessary.

1.  $\frac{1}{2} \bullet \frac{3}{8} >$

2.  $\frac{4}{5} \bullet \frac{8}{10} =$

3.  $\frac{3}{4} \bullet \frac{7}{8} <$

4.  $\frac{1}{2} \bullet \frac{5}{9} <$

5.  $\frac{9}{14} \bullet \frac{3}{7} >$

6.  $-\frac{5}{7} \bullet -\frac{6}{11} <$

7.  $-3\frac{1}{3} \bullet -3\frac{2}{6} =$

8.  $4\frac{9}{10} \bullet 4\frac{3}{5} >$