



#### Example 4 Rename Mixed Numbers to Subtract

Find  $8\frac{1}{5} - 6\frac{1}{2}$ .

$$\begin{aligned}8\frac{1}{5} - 6\frac{1}{2} &= 8\frac{2}{10} - 6\frac{5}{10} \\ &= 7\frac{12}{10} - 6\frac{5}{10} \\ &= 1\frac{7}{10}\end{aligned}$$

The LCD of 5 and 2 is 10.

Rename  $8\frac{2}{10}$  as  $7\frac{12}{10}$ .

First subtract the whole numbers and then the fractions.

#### Example 5 Use Mixed Numbers to Solve a Problem

**SEWING** Danielle needs  $3\frac{2}{3}$  feet of trim to complete the blouse she is making and  $1\frac{3}{4}$  feet of the same trim to complete the matching skirt. What is the total amount of trim Danielle needs to complete the outfit?

$$\begin{aligned}3\frac{2}{3} + 1\frac{3}{4} &= 3\frac{8}{12} + 1\frac{9}{12} \\ &= 4 + \frac{17}{12} \\ &= 4 + 1\frac{5}{12} \\ &= 5\frac{5}{12}\end{aligned}$$

Rename the fractions.

Add the whole numbers and add the fractions.

Rename  $\frac{17}{12}$  as  $1\frac{5}{12}$ .

Simplify.

The total amount of trim needed is  $5\frac{5}{12}$  feet.