

Lesson 5 Reteach

Add and Subtract Mixed Numbers

To add or subtract mixed numbers:

- Add or subtract the fractions. Rename using the LCD if necessary.
- Then, add or subtract the whole numbers.
- Simplify if necessary.

Example 1

Find $6\frac{1}{10} + 2\frac{3}{10}$. Write in simplest form.

$$\begin{array}{r} 6\frac{1}{10} \\ + 2\frac{3}{10} \\ \hline \end{array}$$

$$8\frac{4}{10} \text{ or } 8\frac{2}{5}$$

Add the whole numbers and the fractions separately.

Simplify.

Example 2

Find $8\frac{2}{3} - 6\frac{1}{2}$.

$$8\frac{2}{3} \rightarrow 8\frac{4}{6}$$

$$-6\frac{1}{2} \rightarrow 6\frac{3}{6}$$

$$\hline 2\frac{1}{6}$$

Rename the fractions using the LCD.

Subtract.

Example 3

Find $4\frac{1}{4} - 2\frac{3}{5}$.

$$4\frac{1}{4} \rightarrow 4\frac{5}{20} \rightarrow 3\frac{25}{20}$$

$$-2\frac{3}{5} \rightarrow 2\frac{12}{20} \rightarrow 2\frac{12}{20}$$

$$\hline 1\frac{13}{20}$$

Rename $4\frac{5}{20}$ as $3\frac{25}{20}$.

Subtract the whole numbers and then the fractions.

Exercises

Add or subtract. Write in simplest form.

1. $1\frac{3}{5} + 4\frac{1}{5}$

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

3. $3\frac{2}{3} + 2\frac{1}{2}$

4. $5\frac{3}{4} - 3\frac{1}{6}$

5. $8 - 6\frac{7}{8}$

6. $1\frac{4}{5} + \frac{3}{10}$