

Lesson 5 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.

$$\begin{array}{r} 6\frac{1}{10} \\ + 2\frac{3}{10} \\ \hline 8\frac{4}{10} \text{ or } 8\frac{2}{5} \end{array}$$

Add the whole numbers and the fractions separately.

Simplify.

Example 2

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

$$\begin{array}{r} 8\frac{2}{3} \rightarrow 8\frac{4}{6} \\ - 6\frac{1}{2} \rightarrow 6\frac{3}{6} \\ \hline 2\frac{1}{6} \end{array}$$

Rename the fractions using the LCD.

Subtract.

Example 3

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

$$\begin{array}{r} 4\frac{1}{4} \rightarrow 4\frac{5}{20} \rightarrow 3\frac{25}{20} \\ - 2\frac{3}{5} \rightarrow 2\frac{12}{20} \rightarrow 2\frac{12}{20} \\ \hline 1\frac{13}{20} \end{array}$$

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. $8 - 6\frac{7}{10}$

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

Lesson 5 Skills Practice

Add and Subtract Mixed Numbers

Add or subtract. Write in simplest form.

1. $3\frac{2}{5} + 1\frac{1}{5}$

3. $5\frac{3}{8} - 4\frac{1}{8}$

5. $7\frac{1}{4} - 5\frac{3}{4}$

7. $2\frac{1}{2} - 1\frac{1}{4}$

9. $2\frac{5}{6} - \frac{7}{8}$

11. $8\frac{4}{5} - 2\frac{9}{10}$

13. $10 - 7\frac{7}{8}$