

# Adding Mixed Numbers

**Example 1.**

First add the fractions.

$$1 \frac{2}{5}$$

Add the whole numbers.

$$\begin{array}{r} 1 \frac{2}{5} \\ + 3 \frac{1}{5} \\ \hline 4 \frac{3}{5} \end{array}$$

**Example 2.**

Write fractions with a common denominator.

$$4 \frac{1}{4} = 4 \frac{3}{12}$$

Add the fractions.

$$\begin{array}{r} 4 \frac{3}{12} \\ + 1 \frac{1}{3} = + 1 \frac{4}{12} \\ \hline \end{array}$$

Add the whole numbers.

$$5 \frac{7}{12}$$

**Example 3.**

Write fractions with a common denominator.

$$2 \frac{1}{2} = 2 \frac{3}{6}$$

Add the fractions.

$$\begin{array}{r} 2 \frac{3}{6} \\ + 1 \frac{2}{3} = + 1 \frac{4}{6} \\ \hline \end{array}$$

Add the whole numbers.

$$3 \frac{7}{6} = 4 \frac{1}{6}$$

Regroup so that the fraction is less than 1.

Add and reduce to lowest terms.

**1.**

$$\begin{array}{r} 2 \frac{1}{4} \\ + 3 \frac{1}{4} \\ \hline \end{array}$$

**2.**

$$\begin{array}{r} 6 \frac{1}{5} \\ + 3 \frac{2}{5} \\ \hline \end{array}$$

**3.**

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

**4.**

$$\begin{array}{r} 3 \frac{3}{5} \\ + 1 \frac{2}{3} \\ \hline \end{array}$$

**5.**

$$\begin{array}{r} 8 \frac{3}{4} \\ + 4 \frac{2}{3} \\ \hline \end{array}$$

**6.**

$$\begin{array}{r} 8 \frac{1}{8} \\ + 6 \frac{3}{4} \\ \hline \end{array}$$

**7.**

$$\begin{array}{r} 7 \frac{4}{5} \\ + 3 \\ \hline \end{array}$$

**8.**

$$\begin{array}{r} 2 \frac{5}{8} \\ + 2 \frac{5}{6} \\ \hline \end{array}$$

**9.**

$$\begin{array}{r} 3 \frac{1}{4} \\ + 8 \frac{5}{8} \\ \hline \end{array}$$

# Adding Mixed Numbers

practice sheet 2

Add and reduce to lowest terms.

$$\begin{array}{r} 1. \quad 12 \frac{2}{3} \\ + 13 \frac{5}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 6 \frac{5}{8} \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 9 \frac{5}{9} \\ + 4 \frac{1}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 1 \frac{7}{8} \\ + 4 \frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 5 \frac{1}{2} \\ + 2 \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 7 \frac{1}{3} \\ + 2 \frac{2}{3} \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 3 \frac{1}{5} \\ + 2 \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 5 \frac{3}{4} \\ + 3 \frac{3}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 8 \frac{1}{4} \\ + 1 \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 5 \frac{3}{10} \\ + 6 \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 11. \quad 9 \frac{1}{8} \\ + 4 \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 12. \quad 6 \frac{1}{8} \\ + 2 \frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 13. \quad 2 \frac{3}{4} \\ + 1 \frac{3}{12} \\ \hline \end{array}$$

$$\begin{array}{r} 14. \quad 6 \frac{3}{4} \\ + 5 \frac{1}{5} \\ \hline \end{array}$$

$$\begin{array}{r} 15. \quad 7 \frac{1}{2} \\ + 7 \frac{1}{2} \\ \hline \end{array}$$

# Adding Mixed Numbers

## Example 1.

First add the fractions.

$$\begin{array}{r} 1 \frac{2}{5} \\ + 3 \frac{1}{5} \\ \hline 4 \frac{3}{5} \end{array}$$

Add the whole numbers.

## Example 2.

Write fractions with a common denominator.

$$4 \frac{1}{4} = 4 \frac{3}{12}$$

Add the fractions.

$$\begin{array}{r} 4 \frac{1}{4} = 4 \frac{3}{12} \\ + 1 \frac{1}{3} = + 1 \frac{4}{12} \\ \hline 5 \frac{7}{12} \end{array}$$

Add the whole numbers.

## Example 3.

Write fractions with a common denominator.

$$2 \frac{1}{2} = 2 \frac{3}{6}$$

Add the fractions.

$$\begin{array}{r} 2 \frac{1}{2} = 2 \frac{3}{6} \\ + 1 \frac{2}{3} = + 1 \frac{4}{6} \\ \hline 3 \frac{7}{6} \end{array} = 4 \frac{1}{6}$$

Add the whole numbers.

Regroup so that the fraction is less than 1.

Add and reduce to lowest terms.

1.

$$\begin{array}{r} 2 \frac{1}{4} \\ + 3 \frac{1}{4} \\ \hline 5 \frac{2}{4} = 5 \frac{1}{2} \end{array}$$

2.

$$\begin{array}{r} 6 \frac{1}{5} \\ + 3 \frac{2}{5} \\ \hline 9 \frac{3}{5} \end{array}$$

3.

$$\begin{array}{r} 1 \frac{1}{2} \\ + 3 \frac{1}{2} \\ \hline 4 \frac{2}{2} = 5 \end{array}$$

4.

$$\begin{array}{r} 3 \frac{3}{5} = 3 \frac{9}{15} \\ + 1 \frac{2}{3} = 1 \frac{10}{15} \\ \hline 4 \frac{19}{15} = 5 \frac{4}{15} \end{array}$$

5.

$$\begin{array}{r} 8 \frac{3}{4} = 8 \frac{9}{12} \\ + 4 \frac{2}{3} = 4 \frac{8}{12} \\ \hline 12 \frac{17}{12} = 13 \frac{5}{12} \end{array}$$

6.

$$\begin{array}{r} 8 \frac{1}{8} = 8 \frac{1}{8} \\ + 6 \frac{3}{4} = 6 \frac{6}{8} \\ \hline 14 \frac{7}{8} \end{array}$$

7.

$$\begin{array}{r} 7 \frac{4}{5} \\ + 3 \\ \hline 10 \frac{4}{5} \end{array}$$

8.

$$\begin{array}{r} 2 \frac{5}{8} = 2 \frac{15}{24} \\ + 2 \frac{5}{6} = 2 \frac{20}{24} \\ \hline 4 \frac{35}{24} = 5 \frac{11}{24} \end{array}$$

9.

$$\begin{array}{r} 3 \frac{1}{4} = 3 \frac{2}{8} \\ + 8 \frac{5}{8} = 8 \frac{5}{8} \\ \hline 11 \frac{7}{8} \end{array}$$

# Adding Mixed Numbers

practice sheet 2

Add and reduce to lowest terms.

$$\begin{array}{r}
 1. \quad 12 \frac{2}{3} = 12 \frac{6}{9} \\
 + 13 \frac{5}{9} = 13 \frac{5}{9} \\
 \hline
 25 \frac{11}{9} = 26 \frac{2}{9}
 \end{array}$$

$$\begin{array}{r}
 2. \quad 6 \frac{5}{8} \\
 + 3 \\
 \hline
 9 \frac{5}{8}
 \end{array}$$

$$\begin{array}{r}
 3. \quad 9 \frac{5}{9} = 9 \frac{5}{9} \\
 + 4 \frac{1}{3} = 4 \frac{3}{9} \\
 \hline
 13 \frac{8}{9}
 \end{array}$$

$$\begin{array}{r}
 4. \quad 1 \frac{7}{8} = 1 \frac{7}{8} \\
 + 4 \frac{1}{4} = 4 \frac{2}{8} \\
 \hline
 5 \frac{9}{8} = 6 \frac{1}{8}
 \end{array}$$

$$\begin{array}{r}
 5. \quad 5 \frac{1}{2} = 5 \frac{2}{4} \\
 + 2 \frac{3}{4} = 2 \frac{3}{4} \\
 \hline
 7 \frac{5}{4} = 8 \frac{1}{4}
 \end{array}$$

$$\begin{array}{r}
 6. \quad 7 \frac{1}{3} \\
 + 2 \frac{2}{3} \\
 \hline
 9 \frac{3}{3} = 10
 \end{array}$$

$$\begin{array}{r}
 7. \quad 3 \frac{1}{5} = 3 \frac{8}{40} \\
 + 2 \frac{3}{8} = 2 \frac{15}{40} \\
 \hline
 5 \frac{23}{40}
 \end{array}$$

$$\begin{array}{r}
 8. \quad 5 \frac{3}{4} \\
 + 3 \frac{3}{4} \\
 \hline
 8 \frac{6}{4} = 9 \frac{2}{4} = 9 \frac{1}{2}
 \end{array}$$

$$\begin{array}{r}
 9. \quad 8 \frac{1}{4} = 8 \frac{2}{8} \\
 + 1 \frac{3}{8} = 1 \frac{3}{8} \\
 \hline
 9 \frac{5}{8}
 \end{array}$$

$$\begin{array}{r}
 10. \quad 5 \frac{3}{10} = 5 \frac{3}{10} \\
 + 6 \frac{1}{5} = 6 \frac{2}{10} \\
 \hline
 11 \frac{5}{10} = 11 \frac{1}{2}
 \end{array}$$

$$\begin{array}{r}
 11. \quad 9 \frac{1}{8} = 9 \frac{5}{40} \\
 + 4 \frac{1}{5} = 4 \frac{8}{40} \\
 \hline
 13 \frac{13}{40}
 \end{array}$$

$$\begin{array}{r}
 12. \quad 6 \frac{1}{8} = 6 \frac{1}{8} \\
 + 2 \frac{1}{2} = 2 \frac{4}{8} \\
 \hline
 8 \frac{5}{8}
 \end{array}$$

$$\begin{array}{r}
 13. \quad 2 \frac{3}{4} = 2 \frac{9}{12} \\
 + 1 \frac{3}{12} = 1 \frac{3}{12} \\
 \hline
 3 \frac{12}{12} = 4
 \end{array}$$

$$\begin{array}{r}
 14. \quad 6 \frac{3}{4} = 6 \frac{15}{20} \\
 + 5 \frac{1}{5} = 5 \frac{4}{20} \\
 \hline
 11 \frac{19}{20}
 \end{array}$$

$$\begin{array}{r}
 15. \quad 7 \frac{1}{2} \\
 + 7 \frac{1}{2} \\
 \hline
 14 \frac{2}{2} = 15
 \end{array}$$