

## Adding Mixed Numbers

### Example 1.

First add the fractions.

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.

Add the fractions.

Add the whole numbers.

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

### Example 3.

Write fractions with a common denominator.

Add the fractions.

Add the whole numbers.

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

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

Worksheet 2

Add and reduce to lowest terms.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

## 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

## Worksheet 2

Add and reduce to lowest terms.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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