

Lesson 2.5 Adding and Subtracting Fractions

To add or subtract when the denominators are different, rename the fractions so the denominators are the same.

$$\begin{array}{r} \frac{2}{3} \\ + \frac{3}{7} \\ \hline \end{array} = \begin{array}{r} \frac{2}{3} \times \frac{7}{7} \\ + \frac{3}{7} \times \frac{3}{3} \\ \hline \end{array} = \begin{array}{r} \frac{14}{21} \\ + \frac{9}{21} \\ \hline \end{array} = \frac{23}{21} = 1\frac{2}{21}$$

$$\begin{array}{r} \frac{4}{5} \\ - \frac{1}{10} \\ \hline \end{array} = \begin{array}{r} \frac{4}{5} \times \frac{2}{2} \\ - \frac{1}{10} \\ \hline \end{array} = \begin{array}{r} \frac{8}{10} \\ - \frac{1}{10} \\ \hline \end{array} = \frac{7}{10}$$

Write each answer in simplest form.

1. **a**

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

b

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

c

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

d

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

2.

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

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

$$\begin{array}{r} \frac{2}{3} \\ + \frac{3}{12} \\ \hline \end{array}$$

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

3.

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

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

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

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

4.

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

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

$$\begin{array}{r} \frac{7}{8} \\ - \frac{1}{2} \\ \hline \end{array}$$

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

5.

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

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

$$\begin{array}{r} \frac{5}{8} \\ - \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{10} \\ - \frac{1}{2} \\ \hline \end{array}$$

6.

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

$$\begin{array}{r} \frac{5}{9} \\ - \frac{1}{2} \\ \hline \end{array}$$

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

$$\begin{array}{r} \frac{7}{11} \\ - \frac{2}{9} \\ \hline \end{array}$$