

Name: \_\_\_\_\_

# Subtracting Fractions

with the Unlike Denominator, Requires Simplifying

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

$$\frac{2}{3} = \frac{4}{6} \quad \frac{1}{6} = \frac{1}{6}$$

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

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

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

Add the fractions and simplify the answers.

a. 
$$\begin{array}{r} \frac{4}{6} \\ - \frac{2}{12} \\ \hline \end{array}$$

b. 
$$\begin{array}{r} \frac{4}{8} \\ - \frac{1}{4} \\ \hline \end{array}$$

c. 
$$\begin{array}{r} \frac{3}{5} \\ - \frac{2}{10} \\ \hline \end{array}$$

d. 
$$\begin{array}{r} \frac{3}{7} \\ - \frac{2}{14} \\ \hline \end{array}$$

e. 
$$\begin{array}{r} \frac{2}{5} \\ - \frac{2}{10} \\ \hline \end{array}$$

f. 
$$\begin{array}{r} \frac{3}{6} \\ - \frac{2}{12} \\ \hline \end{array}$$

g. 
$$\begin{array}{r} \frac{4}{5} \\ - \frac{2}{10} \\ \hline \end{array}$$

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

i. 
$$\begin{array}{r} \frac{4}{12} \\ - \frac{1}{6} \\ \hline \end{array}$$

j. 
$$\begin{array}{r} \frac{3}{4} \\ - \frac{2}{8} \\ \hline \end{array}$$

k. 
$$\begin{array}{r} \frac{10}{14} \\ - \frac{2}{7} \\ \hline \end{array}$$

l. 
$$\begin{array}{r} \frac{5}{6} \\ - \frac{2}{12} \\ \hline \end{array}$$

m. 
$$\begin{array}{r} \frac{11}{12} \\ - \frac{1}{6} \\ \hline \end{array}$$

n. 
$$\begin{array}{r} \frac{9}{10} \\ - \frac{2}{5} \\ \hline \end{array}$$

o. 
$$\begin{array}{r} \frac{2}{3} \\ - \frac{3}{9} \\ \hline \end{array}$$

p. 
$$\begin{array}{r} \frac{5}{6} \\ - \frac{1}{2} \\ \hline \end{array}$$

# ANSWER KEY

## Subtracting Fractions

with the Unlike Denominator, Requires Simplifying

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

Add the fractions and simplify the answers.

a.  $\frac{4}{6} = \frac{8}{12}$   
 $\frac{2}{6} = \frac{2}{12}$   
 $\frac{8}{12} - \frac{2}{12} = \frac{6}{12} = \frac{1}{2}$

b.  $\frac{4}{8} = \frac{4}{8}$   
 $\frac{1}{4} = \frac{2}{8}$   
 $\frac{4}{8} - \frac{2}{8} = \frac{2}{8} = \frac{1}{4}$

c.  $\frac{3}{5} = \frac{6}{10}$   
 $\frac{2}{10} = \frac{2}{10}$   
 $\frac{6}{10} - \frac{2}{10} = \frac{4}{10} = \frac{2}{5}$

d.  $\frac{3}{7} = \frac{6}{14}$   
 $\frac{2}{14} = \frac{2}{14}$   
 $\frac{6}{14} - \frac{2}{14} = \frac{4}{14} = \frac{2}{7}$

e.  $\frac{2}{5} = \frac{4}{10}$   
 $\frac{2}{10} = \frac{2}{10}$   
 $\frac{4}{10} - \frac{2}{10} = \frac{2}{10} = \frac{1}{5}$

f.  $\frac{3}{6} = \frac{6}{12}$   
 $\frac{2}{12} = \frac{2}{12}$   
 $\frac{6}{12} - \frac{2}{12} = \frac{4}{12} = \frac{1}{3}$

g.  $\frac{4}{5} = \frac{8}{10}$   
 $\frac{2}{10} = \frac{2}{10}$   
 $\frac{8}{10} - \frac{2}{10} = \frac{6}{10} = \frac{3}{5}$

h.  $\frac{5}{6} = \frac{5}{6}$   
 $\frac{1}{3} = \frac{2}{6}$   
 $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$

i.  $\frac{4}{12} = \frac{4}{12}$   
 $\frac{1}{6} = \frac{2}{12}$   
 $\frac{4}{12} - \frac{2}{12} = \frac{2}{12} = \frac{1}{6}$

j.  $\frac{3}{4} = \frac{6}{8}$   
 $\frac{2}{8} = \frac{2}{8}$   
 $\frac{6}{8} - \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$

k.  $\frac{10}{14} = \frac{10}{14}$   
 $\frac{2}{7} = \frac{4}{14}$   
 $\frac{10}{14} - \frac{4}{14} = \frac{6}{14} = \frac{3}{7}$

l.  $\frac{5}{6} = \frac{10}{12}$   
 $\frac{2}{12} = \frac{2}{12}$   
 $\frac{10}{12} - \frac{2}{12} = \frac{8}{12} = \frac{2}{3}$

m.  $\frac{11}{12} = \frac{11}{12}$   
 $\frac{1}{6} = \frac{2}{12}$   
 $\frac{11}{12} - \frac{2}{12} = \frac{9}{12} = \frac{3}{4}$

n.  $\frac{9}{10} = \frac{9}{10}$   
 $\frac{2}{5} = \frac{4}{10}$   
 $\frac{9}{10} - \frac{4}{10} = \frac{5}{10} = \frac{1}{2}$

o.  $\frac{2}{3} = \frac{6}{9}$   
 $\frac{3}{9} = \frac{3}{9}$   
 $\frac{6}{9} - \frac{3}{9} = \frac{3}{9} = \frac{1}{3}$

p.  $\frac{5}{6} = \frac{5}{6}$   
 $\frac{1}{2} = \frac{3}{6}$   
 $\frac{5}{6} - \frac{3}{6} = \frac{2}{6} = \frac{1}{3}$