

Name: _____

Adding Fractions

with the Unlike Denominator, Requires Simplifying

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

Add the fractions and simplify the answers.

- a. $\frac{2}{5}$ b. $\frac{4}{12}$ c. $\frac{3}{10}$ d. $\frac{1}{3}$

+



PREVIEW

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e.

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

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

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

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

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

j. $\begin{array}{r} \frac{1}{4} \\ + \frac{2}{8} \\ \hline \end{array}$

k. $\begin{array}{r} \frac{1}{5} \\ + \frac{2}{10} \\ \hline \end{array}$

l. $\begin{array}{r} \frac{4}{14} \\ + \frac{1}{7} \\ \hline \end{array}$

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

n. $\begin{array}{r} \frac{1}{2} \\ + \frac{1}{10} \\ + \frac{1}{5} \\ \hline \end{array}$

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

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

ANSWER KEY

Adding Fractions

with the Unlike Denominator, Requires Simplifying

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

Add the fractions and simplify the answers.

a.



~ PREVIEW ~

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e.

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

$$\begin{array}{r}
 \frac{2}{12} = \frac{2}{12} \\
 + \frac{6}{12} = \frac{8}{12} \\
 \hline
 \frac{8}{12} = \frac{2}{3}
 \end{array}$$

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

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

i.

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

j.

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

k.

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

l.

$$\begin{array}{r}
 \frac{4}{14} = \frac{4}{14} \\
 + \frac{1}{7} = \frac{2}{14} \\
 \hline
 \frac{6}{14} = \frac{3}{7}
 \end{array}$$

m.

$$\begin{array}{r}
 \frac{1}{4} = \frac{3}{12} \\
 \frac{1}{3} = \frac{4}{12} \\
 + \frac{3}{12} = \frac{3}{12} \\
 \hline
 \frac{10}{12} = \frac{5}{6}
 \end{array}$$

n.

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

o.

$$\begin{array}{r}
 \frac{1}{14} = \frac{1}{14} \\
 \frac{2}{7} = \frac{4}{14} \\
 + \frac{1}{7} = \frac{2}{14} \\
 \hline
 \frac{7}{14} = \frac{1}{2}
 \end{array}$$

p.

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