

Name: _____

Adding Fractions

with the Double Unlike Denominators, Requires Simplifying

$$\begin{array}{r} \frac{2}{4} \\ + \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline 10 \\ \hline 12 \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline 10 \\ \hline 12 = \frac{5}{6} \end{array}$$

Add the fractions and simplify the answers.

- a. $\frac{2}{4}$ b. $\frac{4}{4}$ c. $\frac{1}{4}$ d. $\frac{2}{4}$

 **PREVIEW**
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e. $\frac{4}{10}$ $\frac{1}{6}$ $\frac{2}{6}$ $\frac{2}{4}$

i. $\frac{2}{4}$ j. $\frac{2}{10}$ k. $\frac{1}{7}$ l. $\frac{2}{6}$
 $\frac{1}{7}$ $\frac{2}{6}$ $\frac{4}{6}$ $\frac{2}{8}$

m. Joe walked $\frac{2}{6}$ of a mile on Monday. On Tuesday he walked another $\frac{2}{9}$ of a mile. How far did Joe walk on Monday and Tuesday?

ANSWER KEY

Adding Fractions

with the Double Unlike Denominators, Requires Simplifying

$$\begin{array}{r} \frac{2}{4} \\ + \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \frac{10}{12} \end{array} \quad \begin{array}{r} \frac{2}{4} = \frac{6}{12} \\ + \frac{1}{3} = \frac{4}{12} \\ \hline \frac{10}{12} = \frac{5}{6} \end{array}$$

Add the fractions and simplify the answers.

- a. $\frac{2}{4} = \frac{8}{12}$ b. $\frac{4}{6} = \frac{12}{18}$ c. $\frac{1}{6} = \frac{2}{12}$ d. $\frac{2}{6} = \frac{4}{12}$

+  **PREVIEW**

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e. $\begin{array}{r} \frac{4}{10} = \frac{12}{30} \\ + \frac{2}{30} = \frac{2}{30} \\ \hline \frac{22}{30} = \frac{11}{15} \end{array}$ $\begin{array}{r} \frac{1}{6} = \frac{4}{24} \\ + \frac{2}{24} = \frac{2}{24} \\ \hline \frac{22}{24} = \frac{11}{12} \end{array}$ $\begin{array}{r} \frac{2}{6} = \frac{6}{18} \\ + \frac{6}{18} = \frac{6}{18} \\ \hline \frac{12}{18} = \frac{2}{3} \end{array}$ $\begin{array}{r} \frac{2}{4} = \frac{18}{36} \\ + \frac{2}{36} = \frac{2}{36} \\ \hline \frac{34}{36} = \frac{17}{18} \end{array}$

i. $\begin{array}{r} \frac{2}{4} = \frac{14}{28} \\ + \frac{1}{7} = \frac{4}{28} \\ \hline \frac{18}{28} = \frac{9}{14} \end{array}$ j. $\begin{array}{r} \frac{2}{10} = \frac{6}{30} \\ + \frac{2}{30} = \frac{10}{30} \\ \hline \frac{16}{30} = \frac{8}{15} \end{array}$ k. $\begin{array}{r} \frac{1}{7} = \frac{6}{42} \\ + \frac{4}{42} = \frac{28}{42} \\ \hline \frac{34}{42} = \frac{17}{21} \end{array}$ l. $\begin{array}{r} \frac{2}{6} = \frac{8}{24} \\ + \frac{2}{24} = \frac{6}{24} \\ \hline \frac{14}{24} = \frac{7}{12} \end{array}$

- m. Joe walked $\frac{2}{6}$ of a mile on Monday. On Tuesday he walked another $\frac{2}{9}$ of a mile.

How far did Joe walk on Monday and Tuesday?

$$\begin{array}{r} \frac{2}{6} = \frac{12}{36} \\ + \frac{2}{9} = \frac{8}{36} \\ \hline \frac{20}{36} = \frac{5}{9} \end{array}$$