

Name: _____

Adding Mixed Numbers

with the Like Denominators, Requires Simplifying

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

The diagram shows the addition of $3\frac{3}{8}$ and $2\frac{1}{8}$. The whole numbers 3 and 2 are added to get 5. The fractions $\frac{3}{8}$ and $\frac{1}{8}$ are added to get $\frac{4}{8}$. Since the denominators are the same, the numerators are added. The result $\frac{4}{8}$ is simplified to $\frac{1}{2}$. The final answer is $5\frac{1}{2}$.

Add the fractions and simplify the answers.

a. $\begin{array}{r} 5\frac{2}{6} \\ + 4\frac{2}{6} \\ \hline \end{array}$

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

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

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

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

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

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

h. $\begin{array}{r} 2\frac{3}{14} \\ + 1\frac{3}{14} \\ \hline \end{array}$

i. $\begin{array}{r} \frac{1}{6} \\ + 4\frac{2}{6} \\ \hline \end{array}$

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

k. $\begin{array}{r} 2\frac{2}{9} \\ + 3\frac{4}{9} \\ \hline \end{array}$

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

m. $\begin{array}{r} 6\frac{4}{10} \\ + 2\frac{2}{10} \\ \hline \end{array}$

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

o. $\begin{array}{r} 1\frac{2}{12} \\ + 7\frac{4}{12} \\ \hline \end{array}$

- p. Tom's family ate $1\frac{2}{8}$ apple pies.
Susie's family ate $1\frac{4}{8}$ cherry pies.
How much pie did both families eat?

ANSWER KEY

Adding Mixed Numbers

with the Like Denominators, Requires Simplifying

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

same

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

Add the fractions and simplify the answers.