

Name: _____

Adding Mixed Numbers

With Different Denominators

Step 1: Find the Least Common Denominator (LCD).

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

Step 2: Using the LCD, find equivalent fractions.

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

Step 3: Add the fractions.

$$\begin{array}{r} 3\frac{1}{2} = 3\frac{4}{8} \\ + 2\frac{3}{8} = + 2\frac{3}{8} \\ \hline 5\frac{7}{8} \end{array}$$

Step 4: Add the whole numbers.

$$\begin{array}{r} 3\frac{1}{2} = 3\frac{4}{8} \\ + 2\frac{3}{8} = + 2\frac{3}{8} \\ \hline 5\frac{7}{8} \end{array}$$

Solve and simplify your answer.

a.
$$\begin{array}{r} 5\frac{3}{4} \\ + 3\frac{1}{12} \\ \hline \end{array}$$

b.
$$\begin{array}{r} 9\frac{3}{5} \\ + 6\frac{4}{15} \\ \hline \end{array}$$

c.
$$\begin{array}{r} 4\frac{4}{9} \\ + 4\frac{1}{3} \\ \hline \end{array}$$

d.
$$\begin{array}{r} 6\frac{3}{10} \\ + 1\frac{2}{5} \\ \hline \end{array}$$

e.
$$\begin{array}{r} 8\frac{3}{7} \\ + 4\frac{1}{3} \\ \hline \end{array}$$

f.
$$\begin{array}{r} 1\frac{5}{6} \\ + 1\frac{1}{12} \\ \hline \end{array}$$

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

h.
$$\begin{array}{r} 7\frac{3}{5} \\ + 5\frac{1}{8} \\ \hline \end{array}$$

i.
$$\begin{array}{r} 6\frac{1}{2} \\ + 4\frac{3}{16} \\ \hline \end{array}$$

j.
$$\begin{array}{r} 7\frac{1}{6} \\ + 2\frac{1}{3} \\ \hline \end{array}$$

k.
$$\begin{array}{r} 3\frac{1}{2} \\ + 3\frac{5}{11} \\ \hline \end{array}$$

l.
$$\begin{array}{r} 5\frac{1}{9} \\ + 3\frac{3}{18} \\ \hline \end{array}$$

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

n.
$$\begin{array}{r} 5\frac{5}{12} \\ + 5\frac{7}{24} \\ \hline \end{array}$$

o.
$$\begin{array}{r} 9\frac{1}{5} \\ + 3\frac{7}{10} \\ \hline \end{array}$$

p.
$$\begin{array}{r} 7\frac{3}{5} \\ + 6\frac{1}{4} \\ \hline \end{array}$$

ANSWER KEY

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Step 4: Add the whole numbers.

$$\begin{array}{r} 3\frac{1}{2} = 3\frac{4}{8} \\ + 2\frac{3}{8} = + 2\frac{3}{8} \\ \hline 5\frac{7}{8} \end{array}$$

Solve and simplify your answer.

a. $5\frac{3}{4}$
+ $3\frac{1}{12}$

b. $9\frac{3}{5}$
+ $6\frac{4}{15}$

c. $4\frac{4}{9}$
+ $4\frac{1}{3}$

d. $6\frac{3}{10}$
+ $1\frac{2}{5}$

e.

i.

m.