

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.

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

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.  $5\frac{3}{4}$

b.  $9\frac{3}{5}$

c.  $4\frac{4}{9}$

d.  $6\frac{3}{10}$



# ~ PREVIEW ~

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i.  $6\frac{1}{2}$   
 $+ 4\frac{3}{16}$   

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j.  $7\frac{1}{6}$   
 $+ 2\frac{1}{3}$   

---

k.  $3\frac{1}{2}$   
 $+ 3\frac{5}{11}$   

---

l.  $5\frac{1}{9}$   
 $+ \frac{3}{18}$   

---

m.  $8\frac{3}{8}$   
 $+ \frac{1}{8}$   

---

n.  $5\frac{5}{12}$   
 $+ 5\frac{7}{24}$   

---

o.  $9\frac{1}{5}$   
 $+ 3\frac{7}{10}$   

---

p.  $7\frac{3}{5}$   
 $+ 6\frac{1}{4}$   

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# ANSWER KEY

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Solve and simplify your answer.

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d.  $6\frac{3}{10}$



# ~ PREVIEW ~

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$12\frac{10}{21}$

$1\frac{11}{12}$

$4\frac{0}{8} = 4\frac{3}{4}$

$12\frac{27}{40}$

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

$10\frac{11}{16}$

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

$9\frac{3}{6} = 9\frac{1}{2}$

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

$6\frac{21}{22}$

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

$5\frac{5}{18}$

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

$8\frac{4}{8} = 8\frac{1}{2}$

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

$10\frac{17}{24}$

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

$12\frac{9}{10}$

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

$13\frac{17}{20}$