

Lesson 15 Addition and Subtraction

The denominators 4 and 10 have a common factor of 2. Use $(4 \times 10) \div 2$ or 20 as the common denominator.

$$\begin{array}{r} \frac{3}{4} \rightarrow \frac{15}{20} \\ + \frac{7}{10} \rightarrow + \frac{14}{20} \\ \hline \frac{29}{20} = 1\frac{9}{20} \end{array} \qquad \begin{array}{r} 2\frac{9}{10} \rightarrow 2\frac{18}{20} \\ + 3\frac{1}{4} \rightarrow + 3\frac{5}{20} \\ \hline 5\frac{23}{20} = 6\frac{3}{20} \end{array}$$

The denominators 8 and 12 have a common factor of 4. Use $(8 \times 12) \div 4$ or 24 as the common denominator.

$$\begin{array}{r} \frac{7}{8} \rightarrow \frac{21}{24} \\ - \frac{5}{12} \rightarrow - \frac{10}{24} \\ \hline \frac{11}{24} \end{array} \qquad \begin{array}{r} 6\frac{11}{12} \rightarrow 6\frac{22}{24} \\ - 2\frac{5}{8} \rightarrow - 2\frac{15}{24} \\ \hline 4\frac{7}{24} \end{array}$$

Write each answer in simplest form.

1.
$$\begin{array}{r} a \\ \frac{1}{6} \\ + \frac{3}{8} \\ \hline \end{array}$$

$$\begin{array}{r} b \\ \frac{3}{4} \\ + \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} c \\ \frac{3}{10} \\ + \frac{4}{15} \\ \hline \end{array}$$

$$\begin{array}{r} d \\ \frac{5}{6} \\ + \frac{4}{9} \\ \hline \end{array}$$

2.
$$\begin{array}{r} 1\frac{3}{4} \\ + 1\frac{3}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 3\frac{7}{15} \\ + 2\frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} 4\frac{11}{12} \\ + 5\frac{8}{9} \\ \hline \end{array}$$

$$\begin{array}{r} 8\frac{5}{6} \\ + 4\frac{7}{10} \\ \hline \end{array}$$

3.
$$\begin{array}{r} \frac{1}{4} \\ - \frac{1}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{8}{9} \\ - \frac{5}{6} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{7}{12} \\ - \frac{3}{16} \\ \hline \end{array}$$

$$\begin{array}{r} \frac{13}{25} \\ - \frac{7}{15} \\ \hline \end{array}$$

4.
$$\begin{array}{r} 2\frac{5}{6} \\ - 1\frac{1}{4} \\ \hline \end{array}$$

$$\begin{array}{r} 6\frac{11}{15} \\ - 3\frac{7}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 9\frac{1}{8} \\ - 5\frac{1}{10} \\ \hline \end{array}$$

$$\begin{array}{r} 8\frac{17}{20} \\ - 2\frac{5}{12} \\ \hline \end{array}$$

Perfect score: 16 My score: _____

Long Division with Decimal Divisors

Name: _____
Date: _____
Color: _____

Set up the following problems to use long division. Find the quotient.

1) $\frac{360}{1.5}$

2) $\frac{770.4}{.09}$

3) $\frac{.1683}{.06}$

4) $\frac{436}{.5}$

5) $\frac{10}{.03}$

6) $\frac{.0253}{.009}$

7) $\frac{56.22}{2.5}$

8) $\frac{582.1}{.04}$