

More Practice...

$$1. \quad 3 \frac{5}{21} \cdot \frac{8}{8} + 4 \frac{19}{24} \cdot \frac{7}{7} + 5 \frac{15}{28} \cdot \frac{6}{6}$$

$\begin{matrix} \textcircled{3} & \textcircled{7} \end{matrix}$ 
 $\begin{matrix} \textcircled{12} & \textcircled{2} \\ \textcircled{2} & \textcircled{6} \\ \textcircled{2} & \textcircled{6} \end{matrix}$ 
 $\begin{matrix} \textcircled{3} & \textcircled{4} \\ \textcircled{2} & \textcircled{6} \end{matrix}$

$$\begin{array}{|c|c|c|c|c|} \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline \end{array} \rightarrow 8$$

$$\begin{array}{|c|c|c|c|c|} \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline \end{array} \rightarrow 7$$

$$\begin{array}{|c|c|c|c|c|} \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline 2 & 2 & 2 & 3 & 7 \\ \hline \end{array} \rightarrow 6$$

$$3 \frac{40}{168} + 4 \frac{133}{168} + 5 \frac{90}{168}$$

$$12 \frac{263}{168} \rightarrow 1 \frac{95}{168}$$

$$13 \frac{95}{168}$$

$$2. \quad 7 \frac{7}{9} \cdot \frac{4}{4} + 1 \frac{5}{18} \cdot \frac{2}{2} + 2 \frac{11}{12} \cdot \frac{3}{3}$$

$\begin{matrix} \textcircled{3} & \textcircled{3} \end{matrix}$ 
 $\begin{matrix} \textcircled{2} & \textcircled{9} \\ \textcircled{3} & \textcircled{3} \end{matrix}$ 
 $\begin{matrix} \textcircled{4} & \textcircled{3} \\ \textcircled{2} & \textcircled{2} \end{matrix}$

$$\begin{array}{|c|c|c|c|} \hline 2 & 2 & 3 & 3 \\ \hline 2 & 2 & 3 & 3 \\ \hline 2 & 2 & 3 & 3 \\ \hline \end{array}$$

$$7 \frac{28}{36} + 1 \frac{10}{36} + 2 \frac{33}{36}$$

$$10 \frac{71}{36} \rightarrow 1 \frac{35}{36}$$

$$11 \frac{35}{36}$$

$$5 \frac{3}{12} \cdot \frac{5}{5} + 4 \frac{17}{20} \cdot \frac{3}{3} = 5 \frac{15}{60} + 4 \frac{51}{60}$$

$\begin{matrix} \textcircled{2} & \textcircled{6} \\ \textcircled{2} & \textcircled{3} \end{matrix}$ 
 $\begin{matrix} \textcircled{2} & \textcircled{10} \\ \textcircled{2} & \textcircled{5} \end{matrix}$

$$\begin{array}{|c|c|c|c|} \hline 2 & 2 & 3 & 5 \\ \hline 2 & 2 & 3 & 5 \\ \hline \end{array}$$

$$= 9 \frac{66}{60} = 9 + 1 \frac{6}{60}$$

$$9 + 1 \frac{1}{10}$$

$$= 10 \frac{1}{10}$$

3.  $8 \frac{4}{15} \cdot \frac{4}{4} - 5 \frac{7}{12} \cdot \frac{5}{5}$

$\frac{4}{15} \cdot \frac{4}{4} = \frac{16}{60}$  (prime factors: 2, 2, 3, 5)

$\frac{7}{12} \cdot \frac{5}{5} = \frac{35}{60}$  (prime factors: 2, 2, 3, 5)

$8 \frac{16}{60} - 5 \frac{35}{60} = 2 \frac{41}{60}$

4.  $9 \frac{7}{10} \cdot \frac{3}{3} - 5 \frac{14}{15} \cdot \frac{2}{2}$

$\frac{7}{10} \cdot \frac{3}{3} = \frac{21}{30}$  (prime factors: 3, 2, 5)

$\frac{14}{15} \cdot \frac{2}{2} = \frac{28}{30}$  (prime factors: 2, 3, 5)

$9 \frac{21}{30} - 5 \frac{28}{30} = 3 \frac{23}{30}$

5.  $7 \frac{47}{47} - \frac{42}{47} = 6 \frac{5}{47}$

6.  $3 \frac{2}{25} \cdot \frac{7}{7} - \frac{29}{35} \cdot \frac{5}{5}$

$\frac{2}{25} \cdot \frac{7}{7} = \frac{14}{175}$  (prime factors: 2, 5, 5, 7)

$\frac{29}{35} \cdot \frac{5}{5} = \frac{145}{175}$  (prime factors: 5, 7, 5)

$3 \frac{14}{175} - 1 \frac{145}{175} = 1 \frac{44}{175}$

7.  $3 \frac{2}{3} \cdot 5 \frac{1}{7}$