

(a) 16 and 48

$$\begin{array}{r}
 2 \overline{) 16} \\
 2 \overline{) 8} \\
 2 \overline{) 4} \\
 2 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 48} \\
 2 \overline{) 24} \\
 2 \overline{) 12} \\
 2 \overline{) 6} \\
 3 \\
 \hline
 \end{array}$$

LCM = 48

(b) 8, 12, 16

$$\begin{array}{r}
 2 \overline{) 8} \\
 2 \overline{) 4} \\
 2 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 12} \\
 2 \overline{) 6} \\
 3 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 16} \\
 2 \overline{) 8} \\
 2 \overline{) 4} \\
 2 \\
 \hline
 \end{array}$$

LCM = 48

(c) 20 and 25

$$\begin{array}{r}
 2 \overline{) 20} \\
 2 \overline{) 10} \\
 5 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 5 \overline{) 25} \\
 5 \\
 \hline
 \end{array}$$

LCM = 100

(d) 40 and 50

$$\begin{array}{r}
 2 \overline{) 40} \\
 2 \overline{) 20} \\
 2 \overline{) 10} \\
 5 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 50} \\
 5 \overline{) 25} \\
 5 \\
 \hline
 \end{array}$$

LCM = 200

(e) 56, 64

$$\begin{array}{r}
 5 \\
 2 \overline{) 56} \\
 2 \overline{) 28} \\
 2 \overline{) 14} \\
 7 \\
 \hline
 \end{array}
 \qquad
 \begin{array}{r}
 2 \overline{) 64} \\
 2 \overline{) 32} \\
 2 \overline{) 16} \\
 2 \overline{) 8} \\
 2 \overline{) 4} \\
 2 \overline{) 2} \\
 \hline
 \end{array}$$

LCM = 448

(F) 96 and 144

$\begin{array}{r} 2 \overline{) 96} \\ 2 \overline{) 48} \\ 2 \overline{) 24} \\ 2 \overline{) 12} \\ 2 \overline{) 6} \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \overline{) 144} \\ 2 \overline{) 72} \\ 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ \hline 3 \end{array}$
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$96 = 2 \times \cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 3$
 $144 = \cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 3 \times 3$

$2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3$

g

$\begin{array}{r} 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ \hline 3 \end{array}$	$\begin{array}{r} 2 \overline{) 42} \\ 3 \overline{) 21} \\ \hline 7 \end{array}$
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$36 = 2 \times 2 \times 3 \times 3$
 $42 = 2 \times 3 \times 7 = 252$

(h)

$$\begin{array}{r} 3 \overline{) 21} \\ 7 \end{array}$$

$$\begin{array}{r} 3 \overline{) 36} \\ 2 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \end{array}$$

$$21 = 3 \times 7$$

$$36 = 3 \times 2 \times 2 \times 3$$

$$\text{LCM} = 3 \times 7 \times 2 \times 2 \times 3 = 252$$

i) $\begin{array}{r} 3 \overline{) 15} \\ 5 \end{array}$

$$\begin{array}{r} 3 \overline{) 45} \\ 5 \overline{) 15} \\ 3 \end{array}$$

$$15 = 3 \times 5$$

$$45 = 3 \times 5 \times 3$$

$$\text{LCM} = 3 \times 5 \times 3 = 45$$

5 10, 20, 30

$$\begin{array}{r} 2 \overline{)10} \\ \underline{5} \end{array} \quad \begin{array}{r} 2 \overline{)20} \\ \underline{5 \overline{)10}} \\ \underline{2} \end{array} \quad \begin{array}{r} 2 \overline{)30} \\ \underline{5 \overline{)15}} \\ \underline{3} \end{array}$$

$$\begin{aligned} 10 &= 2 \times 5 \\ 20 &= 2 \times 5 \times 2 \\ 30 &= 2 \times 5 \times 3 \end{aligned}$$

LCM - 60