

$$\begin{array}{r}
 1.) \quad 2 \overline{) 16, 48} \\
 \quad \quad 2 \overline{) 8 \quad 24} \\
 \quad \quad \quad 2 \overline{) 4 \quad 12} \\
 \quad \quad \quad \quad 2 \overline{) 2 \quad 6} \\
 \quad \quad \quad \quad \quad \cancel{2} \overline{) 1 \quad 3}
 \end{array}$$

$$LCM = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 1 \times 3 = 48$$

$$\begin{array}{r}
 B.) \quad 8, 12, 16 \\
 \quad \quad 2 \overline{) 8, 12, 16} \\
 \quad \quad \quad 2 \overline{) 4 \quad 6 \quad 8} \\
 \quad \quad \quad \quad 2 \overline{) 2 \quad 3 \quad 4} \\
 \quad \quad \quad \quad \quad 2 \overline{) 1 \quad 3 \quad 2}
 \end{array}$$

$$LCM = 2 \times 2 \times 2 \times 1 \times 3 \times 2 = 48$$

$$\begin{array}{r}
 C.) \quad 10, 25 \\
 \quad \quad 2 \overline{) 10 \quad 25} \\
 \quad \quad \quad 2 \overline{) 5 \quad 25} \\
 \quad \quad \quad \quad 1 \quad 5
 \end{array}$$

$$LCM = \cancel{2} \times \cancel{2} \times \cancel{5} \times \cancel{5} = 2 \times 2 \times 5 \times 1 \times 5 = 100$$

$$\begin{array}{r}
 D) \ 2 \overline{) 40, 50} \\
 \underline{20, 50} \\
 5 \overline{) 10, 50} \\
 \underline{20, 10} \\
 2 \overline{) 2, 10} \\
 \underline{1, 5}
 \end{array}$$

$$LCM = 2 \times 2 \times 5 \times 2 \times 1 \times 5 = 200$$

$$\begin{array}{r}
 E) \ 2 \overline{) 56, 64} \\
 \underline{28, 32} \\
 2 \overline{) 14, 16} \\
 \underline{7, 8}
 \end{array}$$

$$LCM = 2 \times 2 \times 2 \times 7 \times 8 = 448$$

$$\begin{array}{r}
 F) \ 2 \overline{) 96, 144} \\
 \underline{48, 72} \\
 2 \overline{) 24, 36} \\
 \underline{12, 18} \\
 2 \overline{) 6, 9} \\
 \underline{3, 9}
 \end{array}$$

$$LCM = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3 = 288$$

$$\begin{array}{r}
 G) \ 2 \overline{) 36, 42} \\
 \underline{18, 21} \\
 2 \overline{) 6, 7} \\
 \underline{3, 7}
 \end{array}$$

$$LCM = 2 \times 3 \times 2 \times 3 \times 7 = 252$$

$$\begin{array}{r}
 4.) \quad 2 \mid 21, 36 \\
 \quad \quad 2 \mid 7, 18 \\
 \quad \quad 2 \mid 7, 9 \\
 \quad \quad \quad 7, 3
 \end{array}$$

$$LCM = 2 \times 2 \times 2 \times 7 \times 3 = 252$$

$$\begin{array}{r}
 5.) \quad 5 \mid 15, 45 \\
 \quad \quad 3 \mid 3, 9 \\
 \quad \quad \quad 1, 3
 \end{array}$$

$$LCM = 5 \times 9 \times 1 \times 3 = 45$$

$$\begin{array}{r}
 6.) \quad 2 \mid 10, 20, 30 \\
 \quad \quad 5 \mid 5, 10, 15 \\
 \quad \quad \quad 1, 2, 3
 \end{array}$$

$$LCM = 2 \times 5 \times 2 \times 2 \times 3 = 60$$