

2a) 16, 48

$$\begin{array}{r} 2 \overline{) 16} \\ \underline{2 \phantom{0}} \\ 2 \phantom{0} \\ \underline{2 \phantom{0}} \\ 2 \phantom{0} \\ \underline{2 \phantom{0}} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 48} \\ \underline{2 \phantom{00}} \\ 2 \phantom{00} \\ \underline{2 \phantom{00}} \\ 2 \phantom{00} \\ \underline{2 \phantom{00}} \\ 0 \end{array}$$

$$16 = 2 \times 2 \times 2 \times 2$$

$$48 = 2 \times 2 \times 2 \times 2 \times 3$$

$$\text{LCM} = 2 \times 2 \times 2 \times 2 \times 3 = 48$$

b) 8, 12, 16

$$\begin{array}{r} 2 \overline{) 8} \\ \underline{2 \phantom{0}} \\ 2 \phantom{0} \\ \underline{2 \phantom{0}} \\ 2 \phantom{0} \\ \underline{2 \phantom{0}} \\ 0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 12} \\ \underline{2 \phantom{0}} \\ 2 \phantom{0} \\ \underline{2 \phantom{0}} \\ 3 \end{array}$$

$$\begin{array}{r} 2 \overline{) 16} \\ \underline{2 \phantom{00}} \\ 2 \phantom{00} \\ \underline{2 \phantom{00}} \\ 2 \phantom{00} \\ \underline{2 \phantom{00}} \\ 0 \end{array}$$

$$8 = 2 \times 2 \times 2$$

$$12 = 2 \times 2 \times 3$$

$$16 = 2 \times 2 \times 2 \times 2$$

$$\text{LCM} = 2 \times 2 \times 2 \times 2 \times 3 \times 2 = 96$$

$$\begin{array}{r|l} 2 & 20 \\ \hline 2 & 10 \\ \hline & 5 \end{array}$$

$$\begin{array}{r|l} 5 & 25 \\ \hline & 5 \end{array}$$

$$20 = 2 \times 2 \times 5$$

$$25 = 5 \times 5$$

$$\text{Lcm} = 5 \times 2 \times 5 \times 2 = 100$$

d.) 40, 50

$$\begin{array}{r|l} 2 & 40 \\ \hline 2 & 20 \\ \hline 2 & 10 \\ \hline & 5 \end{array}$$

$$\begin{array}{r|l} 5 & 50 \\ \hline 5 & 10 \\ \hline & 2 \end{array}$$

$$40 = 2 \times 2 \times 2 \times 5$$

$$50 = 5 \times 5 \times 2$$

$$\text{Lcm} = 5 \times 2 \times 2 \times 2 \times 5 = 200$$

e.) 56, 64

$$\begin{array}{r|l} 2 & 56 \\ \hline 2 & 28 \\ \hline 2 & 14 \\ \hline & 7 \end{array}$$

$$\begin{array}{r|l} 2 & 64 \\ \hline 2 & 32 \\ \hline 2 & 16 \\ \hline 2 & 8 \\ \hline 2 & 4 \\ \hline & 2 \end{array}$$

$$56 = 2 \times 2 \times 2 \times 7$$

$$64 = 2 \times 2 \times 2 \times 2 \times 2 \times 2$$

$$\text{Lcm} = 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 7 = 448$$

2)  $\rightarrow$  96, 144

$$\begin{array}{r} 2 \overline{) 96} \\ 2 \overline{) 48} \\ 2 \overline{) 24} \\ 2 \overline{) 12} \\ 2 \overline{) 6} \\ 3 \end{array}$$

$$\begin{array}{r} 2 \overline{) 144} \\ 2 \overline{) 72} \\ 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \end{array}$$

$$96 = 2 \times 2 \times 2 \times 2 \times 2 \times 3$$

$$144 = 2 \times 2 \times 2 \times 2 \times 3 \times 3$$

$$\text{LCM} = 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 = 288$$

g) 36 and 42

$$\begin{array}{r} 2 \overline{) 36} \\ 2 \overline{) 18} \\ 3 \overline{) 9} \\ 3 \end{array}$$

$$\begin{array}{r} 2 \overline{) 42} \\ 3 \overline{) 21} \\ 7 \end{array}$$

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

$$42 = 2 \times 3 \times 7$$

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

h.) 21, 36

$$\begin{array}{r} 3 \overline{) 21} \\ \underline{3 \phantom{0}} \\ 7 \end{array}$$

$$\begin{array}{r} 3 \overline{) 36} \\ \underline{2 \phantom{0}} \\ 12 \\ \underline{2 \phantom{0}} \\ 6 \\ \underline{2 \phantom{0}} \\ 3 \end{array}$$

$$21 = 3 \times 7$$
$$36 = 3 \times 2 \times 2 \times 3$$

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

i.) 15, 45

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

$$\begin{array}{r} 3 \overline{) 45} \\ \underline{5 \phantom{0}} \\ 15 \\ \underline{3} \end{array}$$

$$15 = 3 \times 5$$
$$45 = 3 \times 5 \times 3$$

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

j.) 10, 20, 30

$$\begin{array}{r} 2 \overline{) 10} \\ \underline{5} \end{array}$$

$$\begin{array}{r} 2 \overline{) 20} \\ \underline{5 \phantom{0}} \\ 10 \\ \underline{2} \end{array}$$

$$\begin{array}{r} 2 \overline{) 30} \\ \underline{3 \phantom{0}} \\ 15 \\ \underline{3} \end{array}$$

$$10 = 2 \times 5$$
$$20 = 2 \times 5 \times 2$$
$$30 = 2 \times 5 \times 3$$

$$\text{Lcm} = 2 \times 5 \times 2 \times 3 = 60$$