

6g

2		96
2		48
2		24
2		12
2		6
3		3

2		144
2		72
2		36
2		18
3		9
		3

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

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

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

9g

2		36
2		18
3		9
3		

2		42
3		21
7		

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

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

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

h)

3		21
7		

2		36
2		18
3		9
3		

$$21 = 3 \times 7$$

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

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

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

$$\begin{array}{l}
 \text{ii) } 3 \overline{)15} \\
 \underline{5} \\
 \end{array}
 \quad
 \begin{array}{l}
 3 \overline{)45} \\
 \underline{15} \\
 \underline{5} \\
 \end{array}
 \quad
 \begin{array}{l}
 25 = 3 \times 5 \\
 45 = 3 \times 3 \times 5
 \end{array}$$

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

$$\begin{array}{l}
 \text{j) } 2 \overline{)10} \\
 \underline{5} \\
 \end{array}
 \quad
 \begin{array}{l}
 2 \overline{)20} \\
 \underline{10} \\
 \underline{5} \\
 \end{array}
 \quad
 \begin{array}{l}
 2 \overline{)30} \\
 \underline{15} \\
 \underline{5} \\
 \end{array}$$

$$\begin{array}{l}
 10 = 2 \times 5 \\
 20 = 2 \times 2 \times 5 \\
 30 = 2 \times 3 \times 5
 \end{array}$$

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