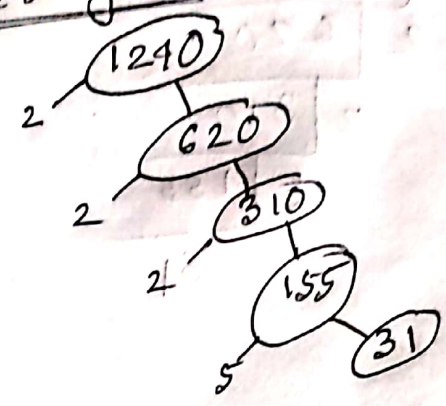


Answer-1:

(i) Division Method:

$$\begin{array}{r} 2 \overline{)1240} \\ \underline{2 \quad 620} \\ 2 \overline{)310} \\ \underline{2 \quad 155} \\ 5 \overline{)155} \\ \underline{5 \quad 31} \end{array}$$

(ii) Tree diagram:-



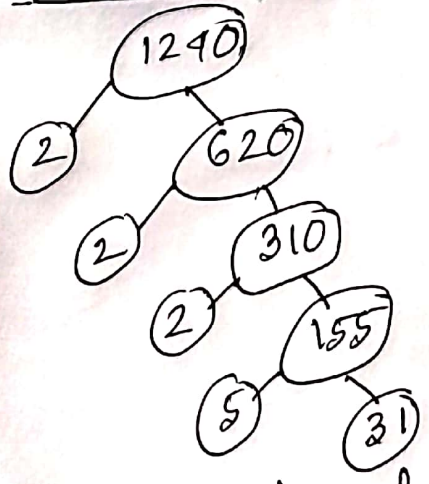
(iii) Multiplication Method:-

$$\begin{aligned} 1240 &= 2 \times 620 \\ &= 2 \times 2 \times 310 \\ &= 2^3 \times 155 \\ &= 2^3 \times 5 \times 31 \end{aligned}$$

\therefore The prime factorization of $1240 = 2^3 \cdot 5 \cdot 31$

Answer-2:-

Tree diagram



\therefore The prime factorization of 1240 is $= 2^3 \cdot 5 \cdot 31$

$$\begin{aligned} \therefore \text{The total number of factors} &= (3+1)(1+1)(1+1) \\ &= 4 \times 2 \times 2 \\ &= 16 \end{aligned}$$

calculation for all factors:

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 8 \times 155$$

$$= 5 \times 248$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

\therefore The factors of 1240 are 1, 2, 4, 8, 5, 10, 20, 31, 40, 62, 124, 248, 155, 310, 620, 1240.

Answer - 03:

$$\begin{array}{r} 2 \overline{)1240} \\ \underline{2 \ 620} \\ 2 \overline{)310} \\ \underline{2 \ 155} \\ 5 \overline{)155} \\ \underline{5 \ 31} \end{array}$$

\therefore Prime factors of 1240 = 2, 5, 31

Answer - 04:

$$1240 = 2 \times 620$$

$$= 4 \times 310$$

$$= 8 \times 155$$

$$= 5 \times 248$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

\therefore The composite factors of 1240 are 4, 8, 10, 20, 40, 62, 124, 155, 248, 310, 620, 1240.