

1. Find the prime factorization of 1240 using three different methods.

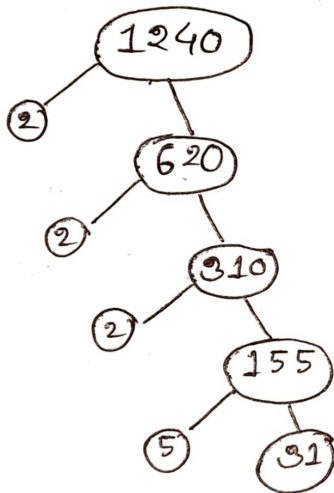
⇒

① Division Method :-

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

$$\therefore 1240 = 2^3 \cdot 5 \cdot 31$$

② Tree Diagram :-



$$\therefore 1240 = 2^3 \cdot 5 \cdot 31$$

③ Multiplication Method :-

$$1240 = 2 \times 620$$

$$= 2 \times 2 \times 310$$

$$= 2 \times 2 \times 2 \times 155$$

$$= 2 \times 2 \times 2 \times 5 \times 31$$

$$\therefore 1240 = 2^3 \cdot 5 \cdot 31$$

2. Find the all factors of 1240.

⇒ Calculation of all factors :-

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 8 \times 155$$

$$= 5 \times 248$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 40 \times 31$$

∴ All the factors of 1240 are

1, 2, 4, 8, 5, 10, 20, 40, 31, 62,

124, 248, 155, 310, 620, 1240

Total = 16

3. Find the all <sup>Prime</sup> factors of 1240.

⇒ Prime factors of 1240 are :- 2, 5, 31.

4. Find the all composite factors of 1240.

⇒ The composite factors of 1240 are :- 4, 8,

10, 20, 40, 62, 124, 248, 155, 310, 620, 1240