

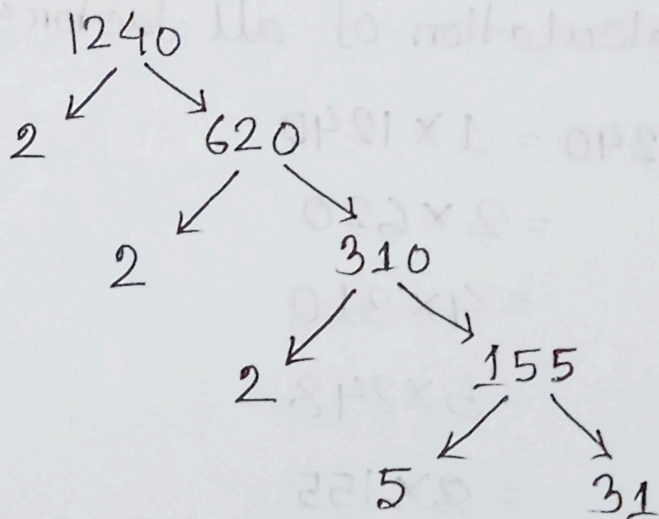
1. Find the Prime factorization of 1240 using three different methods.

Ans: Division Method:

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

Prime factor: $2^3 \cdot 5^1 \cdot 31^1$

Tree Diagram:



Prime factor of 1240 = $2^3 \cdot 5^1 \cdot 31^1$

Multiple Method:

$$1240 = 2 \times 620 = 2 \times 2 \times 310 = 2^2 \times 2 \times 155 \\ = 2^3 \times 5 \times 31$$

∴ Prime factors of 1240 = $2^3 \cdot 5^1 \cdot 31^1$.

End

2. Find the all factors of 1240.

Ans: Total number of factors, $1240 = (3+1)(1+1)(1+1)$

$$= 4 \cdot 2 \cdot 2 \\ = 16$$

Calculation of all factors:

$$1240 = 1 \times 1240 \\ = 2 \times 620 \\ = 4 \times 310 \\ = 5 \times 248 \\ = 8 \times 155 \\ = 10 \times 124 \\ = 20 \times 62 \\ = 40 \times 31$$

All the factors of 1240 are;

1, 2, 4, 5, 8, 10, 20, 40, 31, 62, 124, 155, 248,
310, 620, 1240.

3. Find the all Prime factors of 1240.

Ans: Prime factors of 1240 are;

2, 5, 31.

4. Find the all composite factors of 1240.

Ans: Composite factors of 1240 are;

1, 4, 8, 10, 20, 40, 62, 124, 155, 248, 310, 620,
1240.