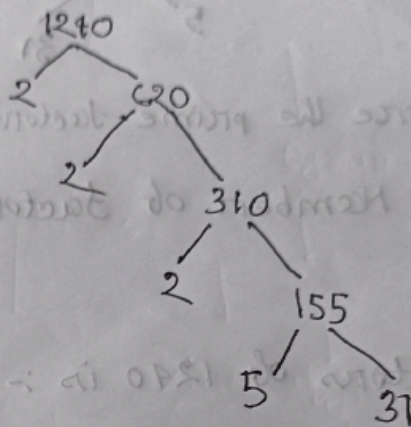


Q Find Prime Factorization of 1240

Division method

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

Tree diagram



Multiplication method

$$1240 = 2 \times 620$$

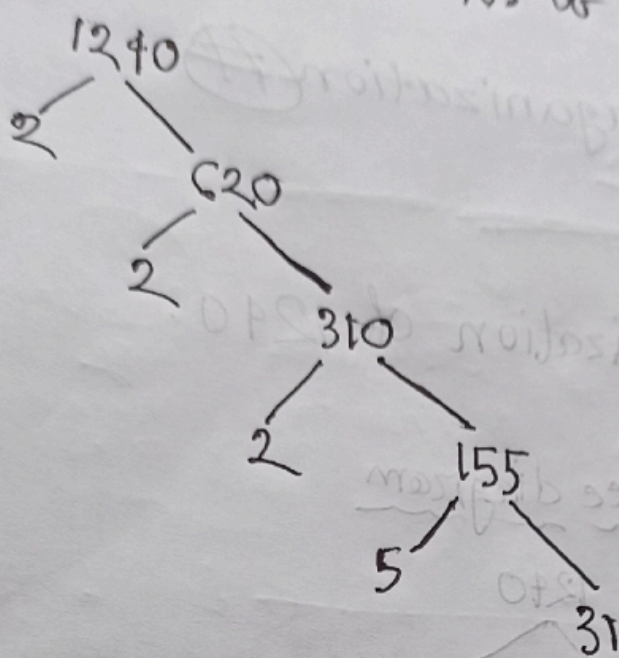
$$620 = 2 \times 2 \times 2 \times 310 = 2 \times 2 \times 2 \times 155$$

$$155 = 2 \times 2 \times 2 \times 5 \times 31$$

So, the prime factorization of 1240 is  $= 2^3 \cdot 5 \cdot 31$



\* Find the all factors of 1240 using tree diagram



Here the prime factorization is  $= 2^3 \cdot 5 \cdot 31$

So, Number of factors is  $= (3+1)(1+1)(1+1)$   
 $= 4 \times 2 \times 2 = 16$ .

\* Factors of 1240 is :-

~~1240 = 2 \times~~

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 5 \times 248$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

Prime factors of 1240

$\rightarrow 2, 5, 31$

Composite factors of 1240

$\rightarrow 4, 8, 10, 20, 40, 62, 124$

$155, 248, 310, 620, 1240$