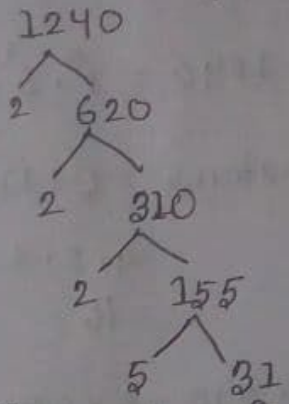
## Homework :—

1. The prime factorization of 1240 in Division method:-

$$\begin{array}{r|l} 2 & 1240 \\ 2 & 620 \\ 2 & 310 \\ 5 & 155 \\ & 31 \end{array}$$

∴ The prime factorization of $1240 = 2^3 \cdot 5^1 \cdot 31^1$

In Tree diagram method :-




∴ The prime factorization of $1240 = 2^3 \cdot 5^1 \cdot 31^1$

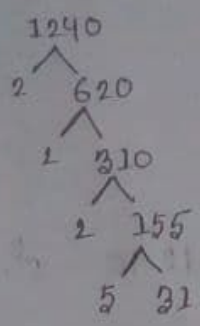
In Multiple method :—

$$\begin{aligned} 1240 &= 2 \times 620 \\ &= 2 \times 2 \times 310 \\ &= 2^2 \times 2 \times 155 \\ &= 2^3 \times 5 \times 31 \\ &= 2^3 \cdot 5^1 \cdot 31^1 \end{aligned}$$

∴ The prime factorization of $1240 = 2^3 \cdot 5^1 \cdot 31^1$

2. Find all the ~~prime~~ factors of 1240 using ~~tree~~ diagram.

=>




∴ The prime factorization of $1240 = 2^3 \cdot 5^1 \cdot 31^1$

∴ The total number of factors $= (3+1)(1+1)(1+1)$

$= 4 \cdot 2 \cdot 2$

$= 16$

Calculation for all factors :-

$1240 = 1 \times 1240 = 2 \times 620 = 4 \times 310 = 5 \times 248$

$= 8 \times 155 = 10 \times 124 = 20 \times 62$

$= 31 \times 40$

∴ The factors of 1240 are: 1, 2, 4, 5, 8, 10, 20, 31, 40, 124, 155, 248, 310, 620, 1240

3. The prime factors of 1240 are:- 2, 5, 31

4. From 2 Number's answers, we can see that the all composite factors of 1240 are: 4, 8, 10, 20, 40, 124, 155, 248, 310, 620, 1240.