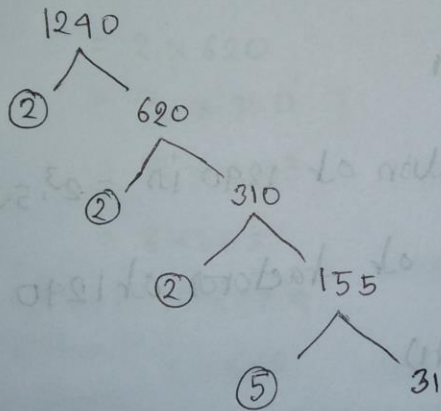


* Division method:-

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

* Tree Diagram

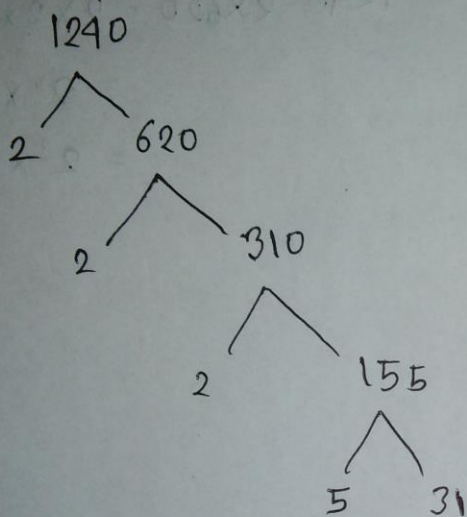


* Multiplication method:-

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

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

2. * Tree Diagram



∴ The prime factorization of 1290 is $= 2^3 \cdot 5 \cdot 31$

So, the total numbers of factors of 1290 is

$$= (3+1) \cdot (1+1) \cdot (1+1)$$

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

$$= 16$$

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

So, the prime factors of 1240 are = ~~2, 5, 31~~ 2, 5, 31

$$4. \quad 1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 5 \times 248$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

So, the composite factors of 1240 are = ~~1, 2, 4,~~

~~5, 8, 10, 20, 31, 40, 62, 124, 155, 248, 310, 620, 1240.~~