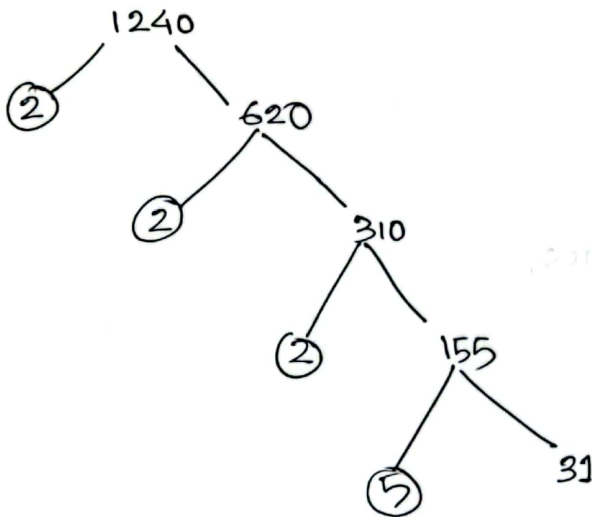


2.0 Division Method.

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

(i) Tree Diagram



(ii) 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. From '1' we get the prime factorization of 1240 is

$$2^3 \cdot 5 \cdot 31$$

$\therefore$  The total numbers of factors of 1240 is

$$= (3+1)(1+1)(1+1)$$

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

$$= 16$$

Calculation of all factors,

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 5 \times 248$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

$\therefore$  the factors of 1240 are

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

3. The prime factors of 1240 are,

2, 2, 2, 5, 31

4. The composite factors of 1240:

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