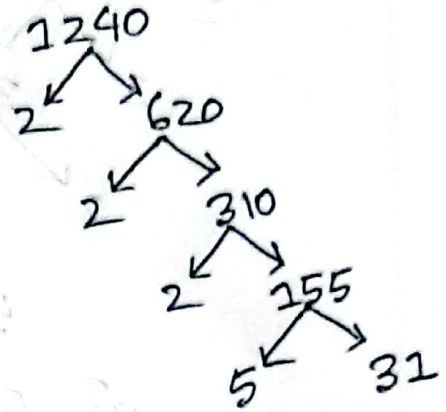
1 Ques: Find the prime factorization of 1240 using three different methods.

Ans:-

* Division method.

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

* Tree Diagram method



* multiplication method.

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

The prime factorization of 1240 is $= 2^3, 5, 31$

2 ~~Ans:-~~

~~1240~~

~~1240~~

[2] Qus:- Find the all factors of 1240

calculation for all factors

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

The factors of 1240 are:-
1, 2, 4, 5, 8, 10, 20, 31, 40, 62, 124, 155, 248, 310, 620, 1240.

[3] Find the all prime factors of 1240.

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

Therefore, the prime factors of 1240 are:-
2, 5, 31

~~[4] Find the all composite factors of 1240.~~

[9] Find the all composite factors of 1240

$$1240 = 1 \times 1240$$
$$= 2 \times 620$$
$$= 4 \times 310$$
$$= 5 \times 248$$
$$= 8 \times 155$$
$$= 10 \times 124$$
$$= 20 \times 62$$
$$= 40 \times 30$$

The composite factors of 1240 are-
4, 8, 10, 20, 40, 62, 124, 248, 310, 620, 1240.