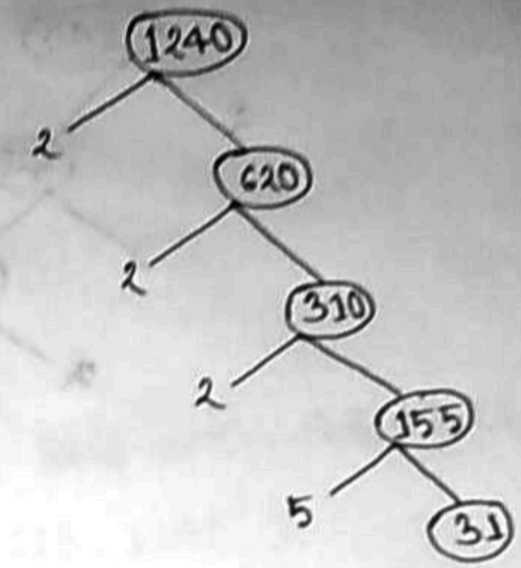
Math

19.01.22

1. Division Method:

2	1240
2	620
2	310
5	155
	31

Tree diagram:



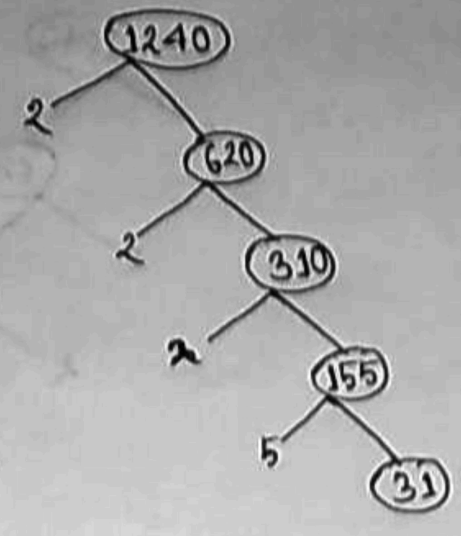
∴ The prime factorization of 1240 is : $2^3 . 5 . 31$.

Multiplication Method:

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

Therefore, prime factorization is $2^3 . 5 . 31$.

2. Tree diagram:



∴ The prime factorization of 1240 is $2^3 \cdot 5 \cdot 31$.

∴ All the factors will be = $(3+1).(1+1).(1+1)$

$= 4 \times 2 \times 2$

$= 16$

calculating factorization,

$1240 = 1 \times 1240$

$= 2 \times 620$

$= 4 \times 310$

$= 8 \times 155$

$= 40 \times 31$

$= 5 \times 248$

$= 20 \times 62$

$= 10 \times 124$

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

3. From the previous answer,

All the prime factors of 1240 are = 2, 5, 31,

4. From the previous answer,

All the composite factors of 1240 are = 4, 8, 40, 20, 10, 124,
62, 248, 155, 310, 620, 1240 .

Shanto.