

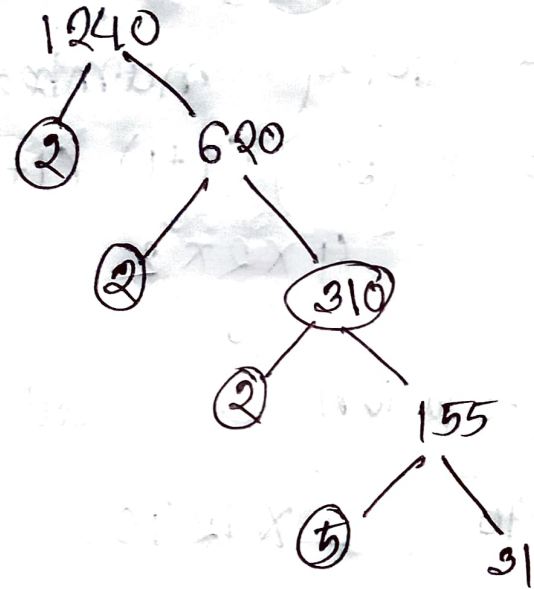
Mathematics
Number system

Division

① #

$$\begin{array}{r} 2 \overline{) 1240} \\ \underline{2} \\ 2 \\ \underline{2} \\ 0 \\ 5 \overline{) 155} \\ \underline{5} \\ 0 \\ 31 \end{array}$$


Tree method



Multiplication method:

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

Therefore the prime factorization
of $= 2^3 \times 5 \times 31$.

 Got it from number 1

The Prime factorization of 1240
is $= 2^3 \times 5 \times 31$

The total number of factors 1240

$$\begin{aligned} \text{is} &= (3+1)(1+1)(1+1) \\ &= 4 \times 2 \times 2 \\ &= 16 \end{aligned}$$

Calculation of all factors

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 5 \times 248$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

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, 5, 31,

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