

Sub: Number system
221-15-4758

Day: _____
Time: _____ Date: 20/01/22

* next week past continuous tense presentation class

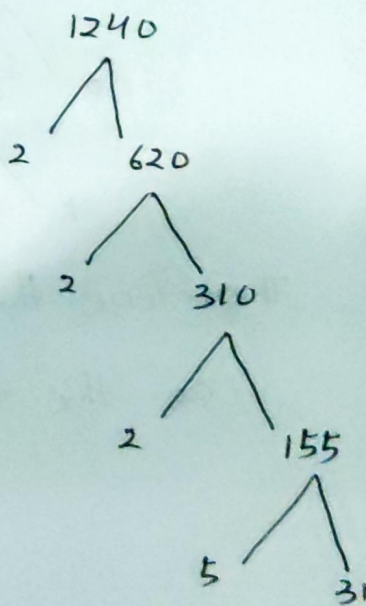
24/01/22

Mat - III

1. Finding the prime Factorization of 1240. using three different methods.

i. Division method:- ii. Tree diagram:-

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



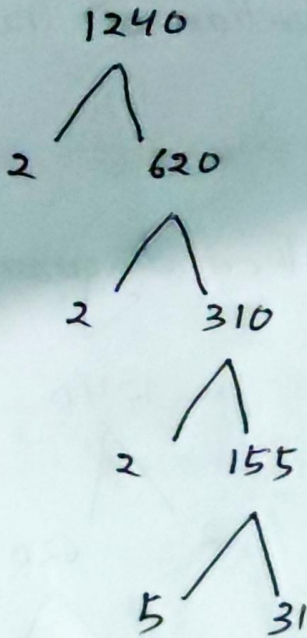
iii. Multiplication method:-

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

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

2. finding the all factors of 1240 using tree diagram.

i. Tree diagram:-



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

\therefore So, the total numbers of factors of 1240 is

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

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

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

$$= 16$$

Sub: _____

Day

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3. Finding the all prime factors of 1240.

$$1240 = 2 \times 620 = 2 \times 2 \times 310 = 2^4 \times 2 \times 155 = 2^3 \times 5 \times 31$$

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

4. Finding the all composite factors of 1240.

Composite Factors:-

$$1240 = \cancel{2, 620, 310, 4, 8, 155, 5, 31}$$

$$= \cancel{2, 4, 8, 5, 31, 155, 310, 620}$$

$$= \cancel{4, 8, 155, 310, 620}$$

$$1240 = 4, 8, 10, 20, 40, 62, 124, 155, 248, 310, 620, 1240$$