

Sub: ~~How do~~

ID-5374

Day

Time: ⊕

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1. Find the prime factorization of 1240 using three different methods
- ② Find the all factors of 1240 using tree diagram
- ③ Find the all prime factors of 1240.
- ④ Find the all composite factors of 1240.

Answers: ①

① Division Method:

$$2 \overline{)1240}$$

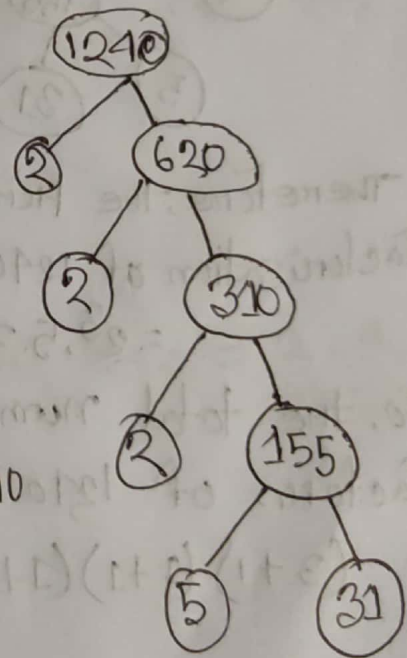
$$2 \overline{)620}$$

$$2 \overline{)310}$$

$$5 \overline{)155}$$

$$31$$

② Tree diagram:



③ Multiplication Method:

$$1240 = 2 \times 620 = 2 \times 2 \times 310$$

$$= 2^3 \times 155$$

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

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

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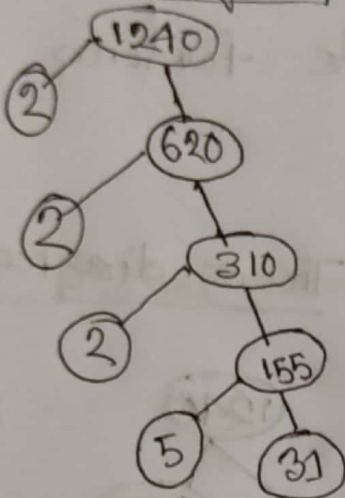
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Answer: 2

Find all the factors of 1240 using tree diagram!

Tree diagram



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

So, the total number of factors of 1240 is

$$(3+1)(1+1)(1+1) = 16$$

calculate calculation for all factors

$$\begin{aligned} 1240 &= 1 \times 1240 \\ &= 2 \times 620 \\ &= 4 \times 310 \\ &= 5 \times 248 \\ &= 8 \times 155 \\ &= 10 \times 124 \\ &= 20 \times 62 \\ &= 31 \times 40 \end{aligned}$$

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

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Find the prime factors of 1240

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

\therefore Prime factors of 1240 = 2, 5, 31

Answer: 4

Find all composite factors of 1240

$$\begin{aligned} 1240 &= 2 \times 620 \\ &= 4 \times 310 \\ &= 8 \times 155 \\ &= 8 \times 5 \times 31 \end{aligned}$$

\therefore Composite factors of 1240 = 2, 4, 8, 5, 31, 155, 310, 620