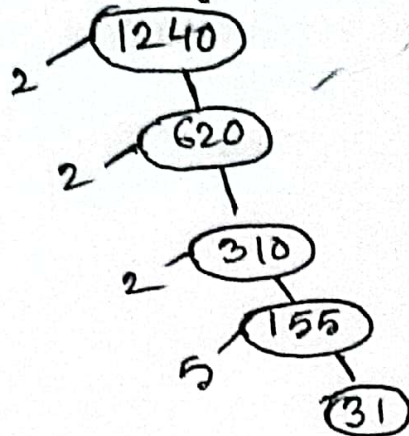


1. Find the prime factorization of 1240 using three different methods.

Division method

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

Tree Diagram



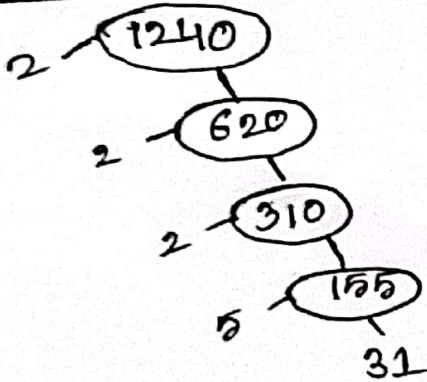
Multiplication Method

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

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

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

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

v ... are 2, 3, 31,

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

311 Find the prime factors of 1240

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

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

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