

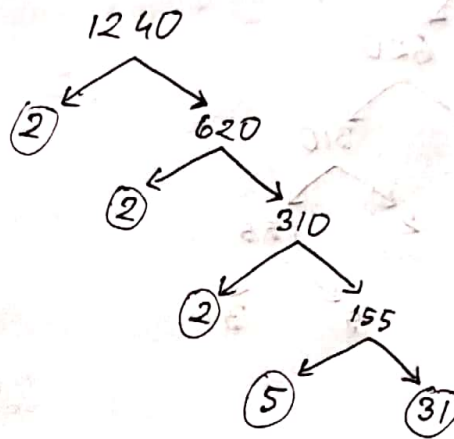
221-15-5592

①

(i) Division method:

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

(ii) Tree diagram:

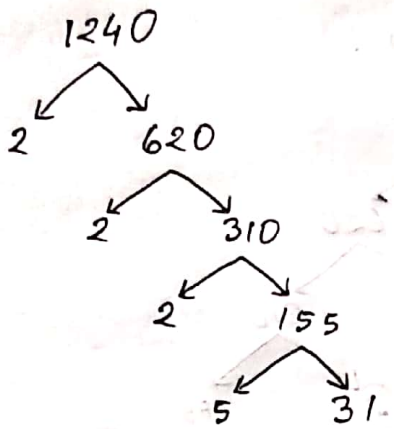


(iii) Multiplication method:

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

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

②



$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 40 \times 31$$

Therefore, all factors of 1240 are: 1, 2, 4, 8, 10, 20, 40, 31, 62, 124, 155, 310, 620, 1240

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

Therefore, the prime factors of 1240 are: 2, 5, 31

④

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

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