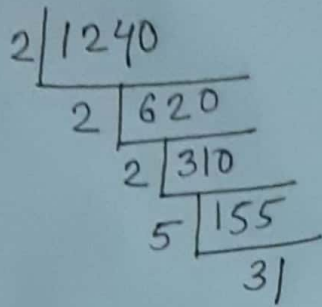
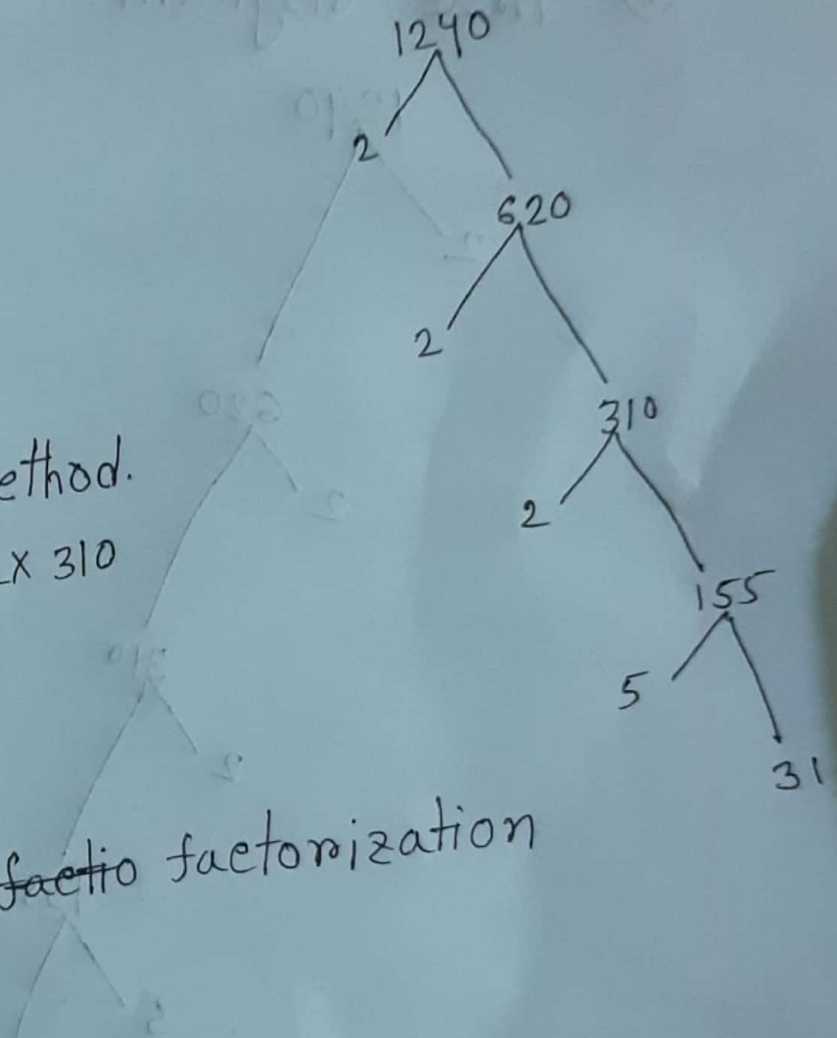


① Finding the prime factorization of 1240 using three different methods.

(i) Division method



(ii) Tree diagram



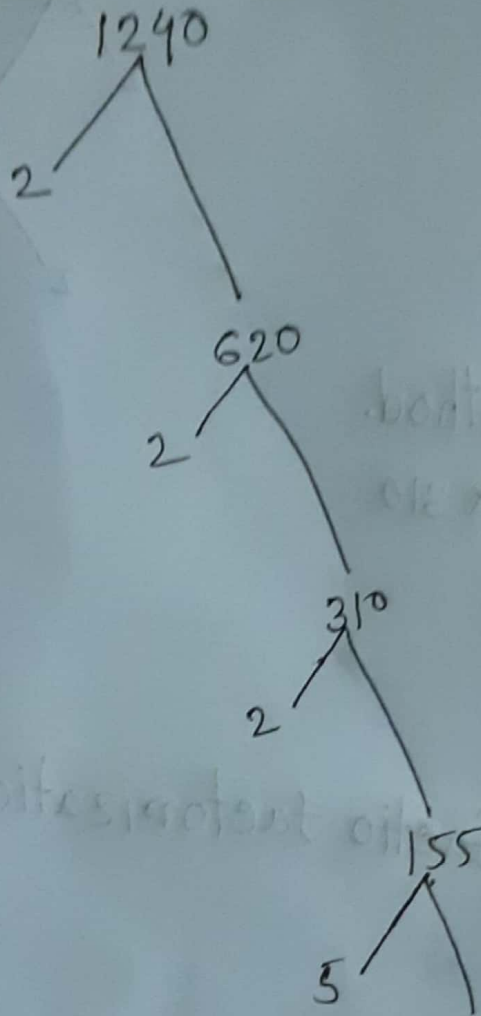
(iii) Multiplication method.

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

Therefore find the factor factorization of $1240 = 2^3 \cdot 5 \cdot 31$

② Finding the all factors of 1240 Using Tree diagram

(i) Tree diagram



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

\therefore so the total number of factors of
is $= 2^3 \cdot 5 \cdot 31$

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

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

$$= 16$$

③ Finding the all prime factors of 1240
 $1240 = 2 \times 620 = 2 \times 2 \times 310 = 2 \times 2 \times 155 = 2^3 \cdot 5 \cdot 31$

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

④ Finding the all Composite factors of 1240
Composite factors:

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