

HW

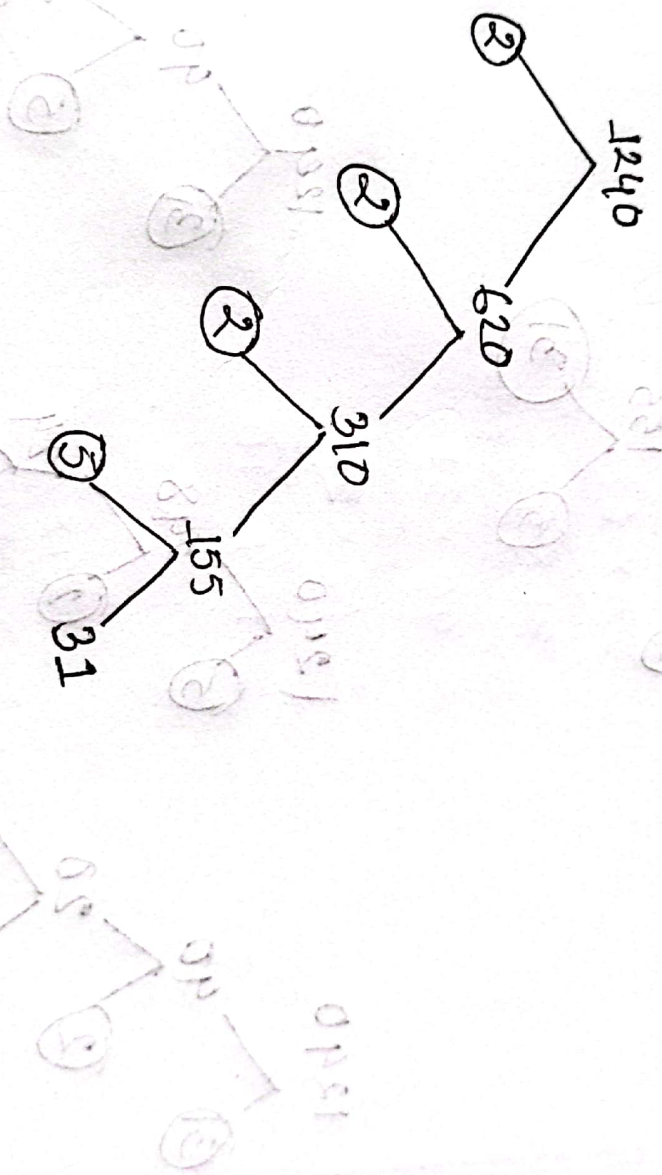
Siam Ahmed - 221-15-5512

②

1. Division Method

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

2. Tree Diagram



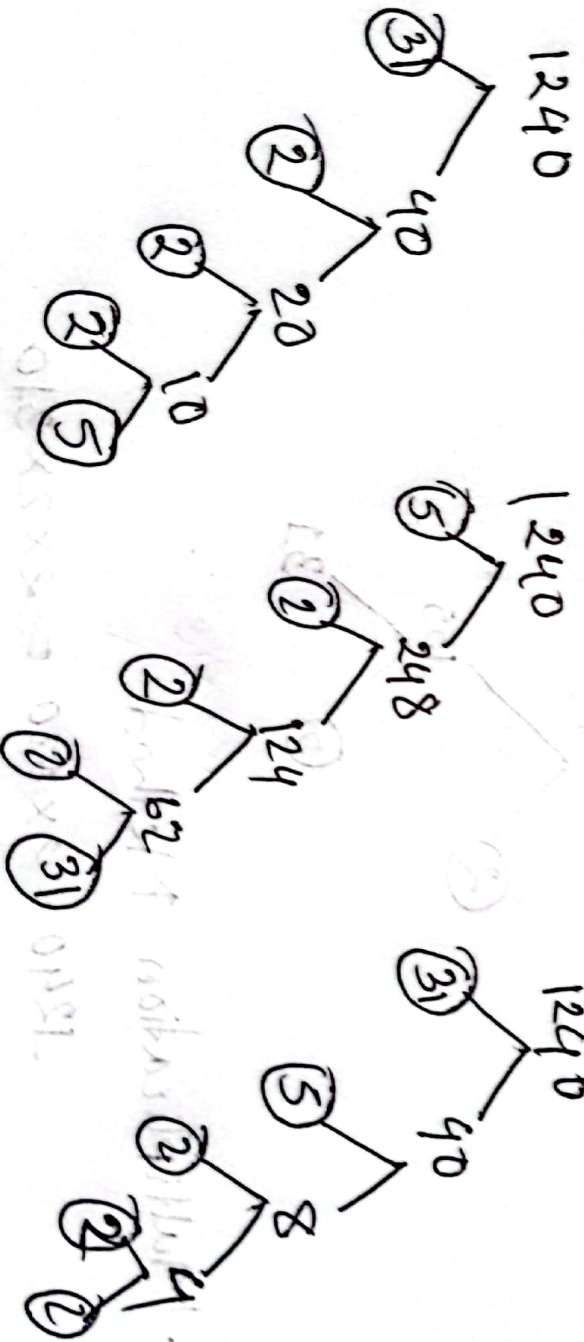
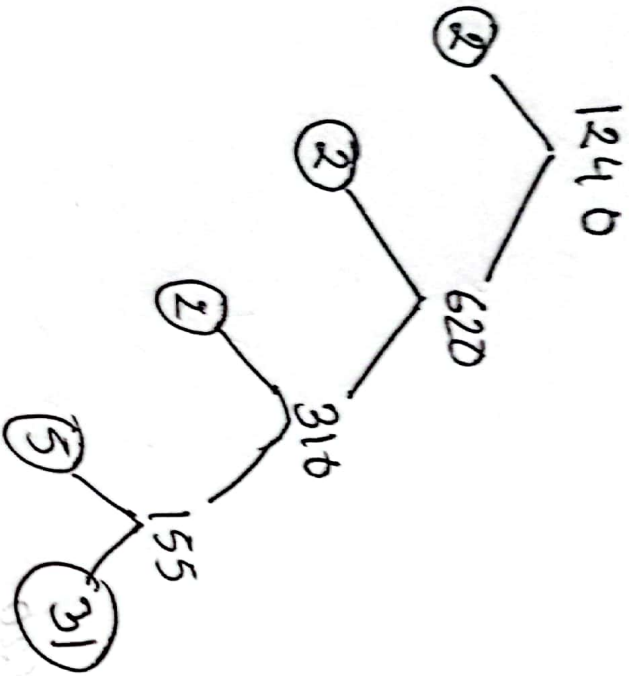
3. Multiplication Method:

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

Therefore, the prime factorization of

$$1240 \text{ is } = 2^3 \cdot 5 \cdot 31$$

(3)



All factors = { 1, 2, 4, 5, 8, 10, 20, 31, 40, 62, 124, 155, 248, 310, 620, 1240 }

3.

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

The prime factors are 1240: 2, 2, 2, 5, 31.

9.

$$1240 = 1 \times 1240$$

$$= 2 \times 620$$

$$= 4 \times 310$$

$$= 5 \times 248$$

$$= 8 \times 155$$

$$= 10 \times 124$$

$$= 20 \times 62$$

$$= 31 \times 40$$

$$= 40 \times 31$$

$$= 62 \times 20$$

$$= 124 \times 10$$

$$= 155 \times 8$$

$$= 248 \times 5$$

$$= 310 \times 4$$

$$= 620 \times 2$$

$$= 1240 \times 1$$

The composite factors of 1240 :

1, 4, 8, 10, 20, 40, 62, 124, 155, 248, 310, 620, 1240.