

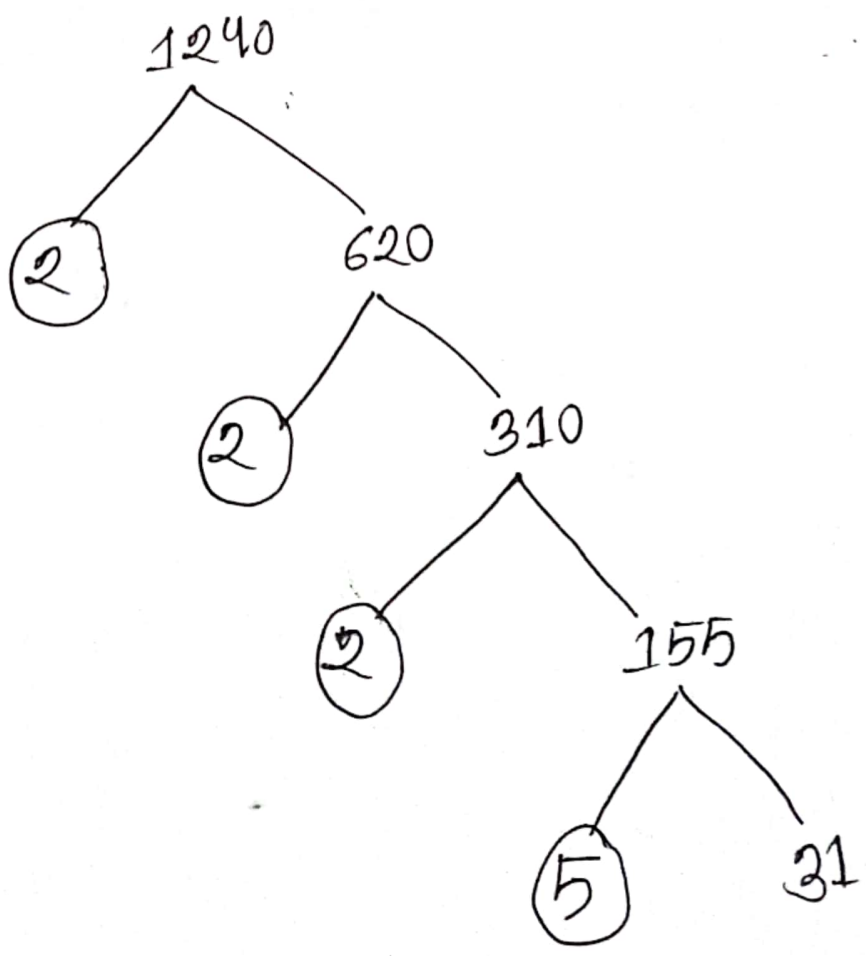
Math Homework

1.1

1. Division method

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

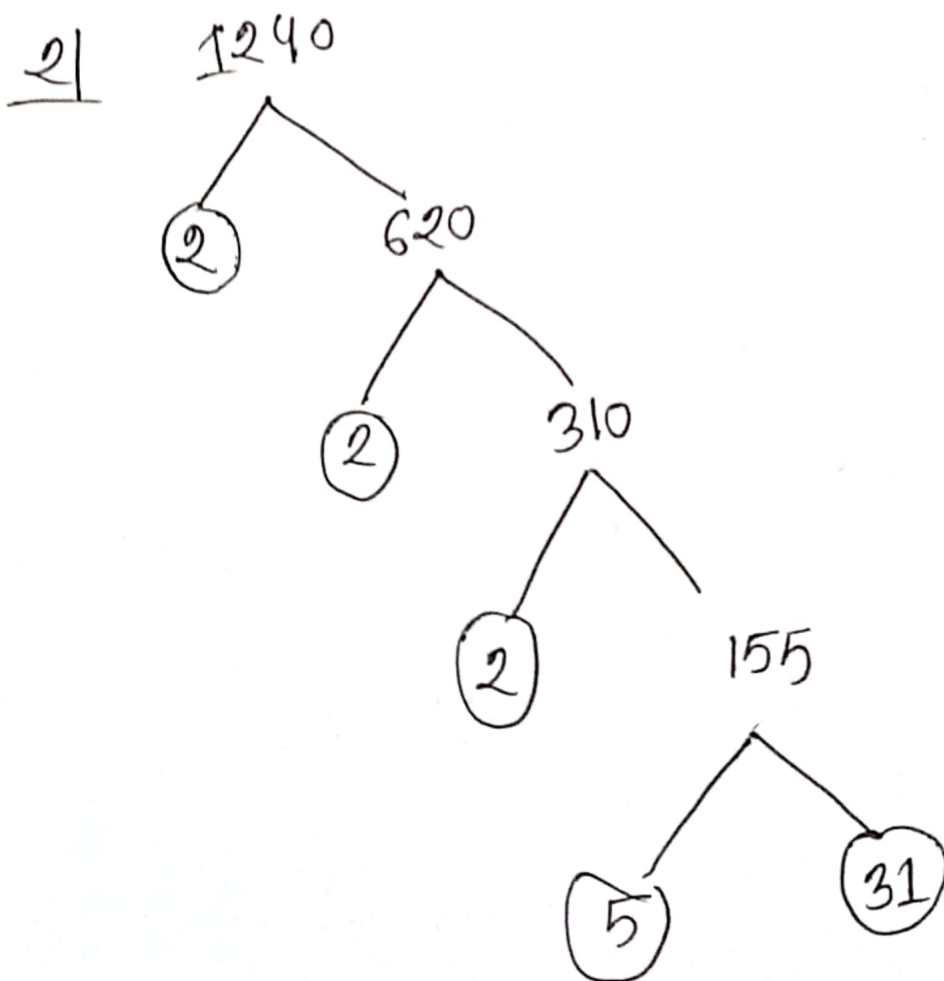
2. Tree Diagram

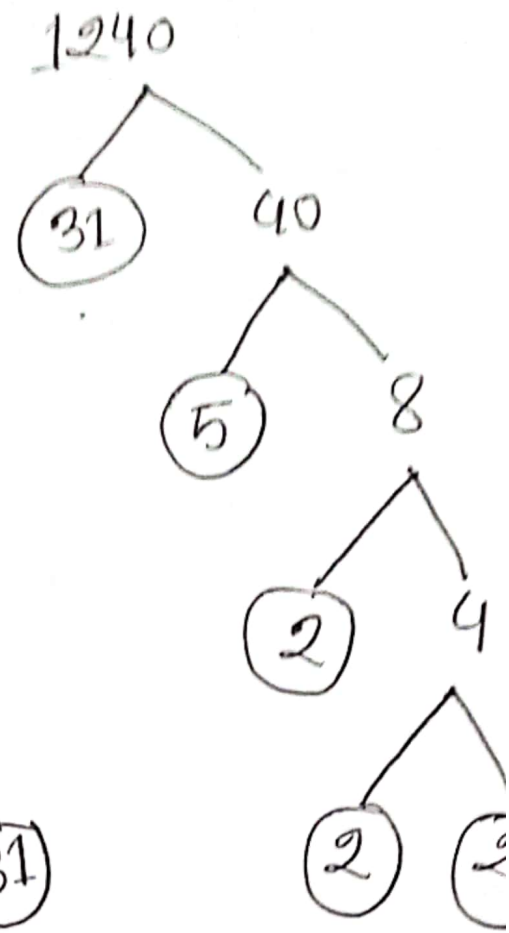
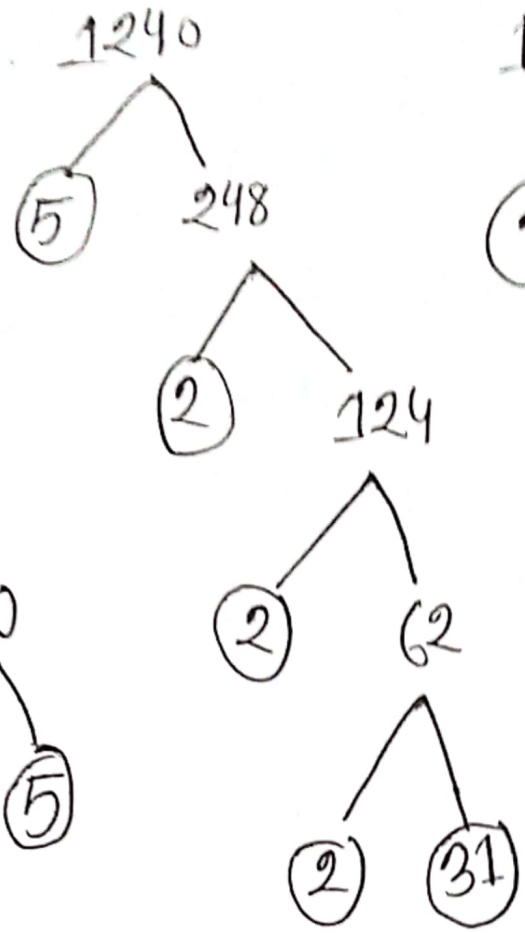
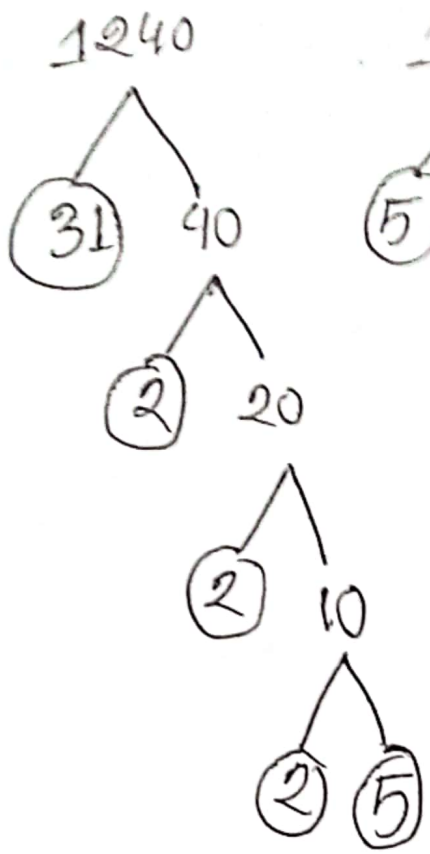


3. Multiplication Method:

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

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





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

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

The prime factors of 1240 : 2, 2, 2, 5, 31



Date: / /

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

The composite factors of 1240:

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

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