

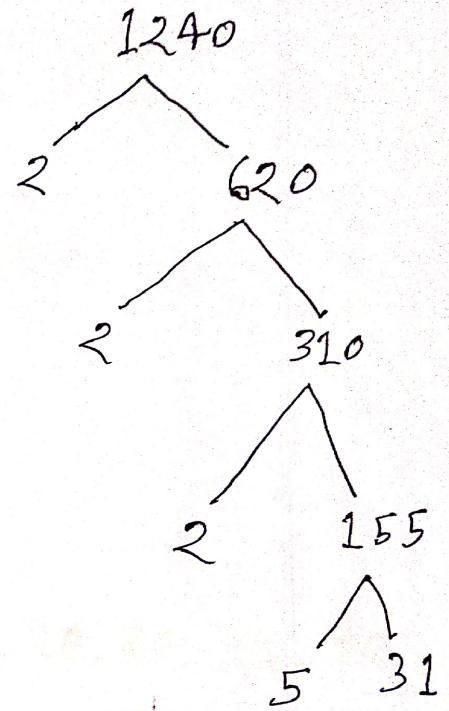
Understanding the Lesson on Number System

1. Method-1:

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

$$= 2^3 \cdot 5 \cdot 31$$

Method-2:



$$= 2^3 \cdot 5 \cdot 31$$

Method-3:

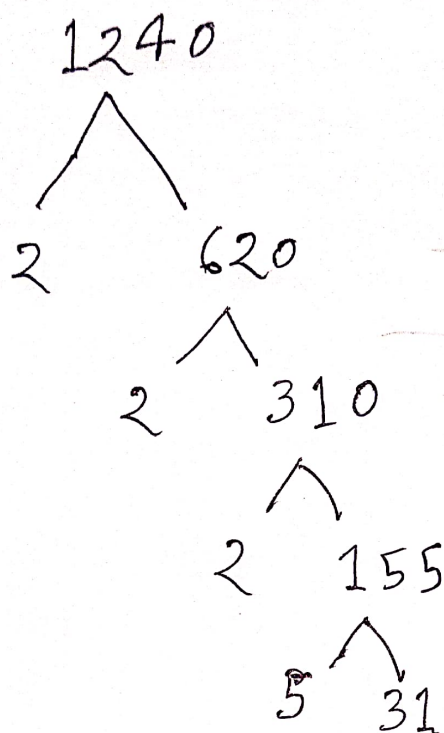
$$1240 = 2 \times 620$$

$$= 2 \times 2 \times 310$$

$$= 2 \times 2 \times 2 \times 155$$

$$= 2^3 \times 5 \times 31$$

2. Tree diagram



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

Total number of factors of 1240

$$= \cancel{2^3 \cdot 5 \cdot 31}$$

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

$$= 16$$

Calculation for all factors:

$$1240 = 1 \times 1240$$

$$= 8 \times 155$$

$$= 2 \times 620$$

$$= 10 \times 124$$

$$= 4 \times 310$$

$$= 20 \times 62$$

$$= 5 \times 248$$

$$= 40 \times 31$$

all factors of 1240 : 1, 2, 4, 5, 8, 10, 20, 31, 40,
62, 124, 248, 155, 310, 620, 1240.

3. Prime factors of 1240 are 2, 5, 31.

4. All the composite : 4, 8, 10, 20, 40,
62, 124, 155, 248, 310, 620, 1240.