Number System

①

*Method-1:- Division method:

2	1240
2	620
2	310
5	155
	31

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

*Method-2:- Multiple method

$1240 = 2 \times 620$

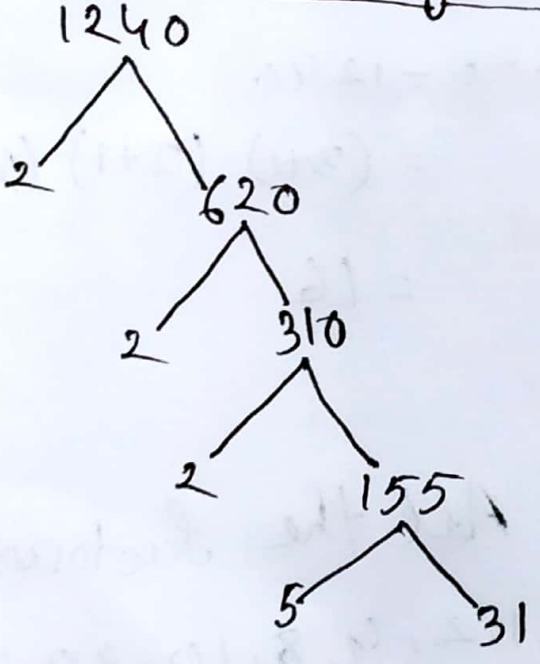
$= 1 \times 1240$

$= 4 \times 310$

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

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

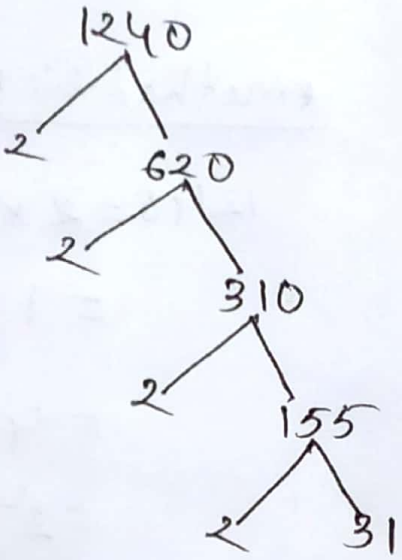
* Method 3:- Tree diagram



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

Scanned with CamScanner

*Find all the factors using tree diagram



Prime factorization of 1240 is $\rightarrow 2^3 \cdot 5 \cdot 31$

total number of factors are = 1240

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

$= 16$

Calculate for factors.

$1240 = 1 \times 1240$

$= 2 \times 620$

$= 4 \times 310$

$= 8 \times 155$

$= 5 \times 248$

$= 10 \times 124$

$= 20 \times 62$

$= 40 \times 31$

All the factors of -

1, 2, 4, 8, 10, 20, 31, 40, 62

124, 248, 155, 310, 620, 1240

Scanned with CamScanner

3

Date

* Find all the Prime factors of 1240.

→ Prime factors of 1240

2, 5, 31

4

* Find all the composite factor of 1240.

→ composite factor of 1240 -

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

Asiful Islam
221-15-5919

Scanned with CamScanner