STD – 10 MATHS

CHAPTER - 1

REAL NUMBER

EXERCISE - 1.2 Q-1

1. Express each number as a product of its prime factors:

(i) 140

- By Taking the LCM of 140, we will get the product of its prime factor. Therefore,

2	140
2	70
5	35
7	7
	1

140

$= 2 \times 2 \times 5 \times 7 \times 1$

$= 2^2 \times 5 \times 7$

(ii) 156

By Taking the LCM of 156, we will get the product of its prime factor.

2	156
3	78
3	39
13	13
	1

Hence,

156

$= 2 \times 2 \times 13 \times 3 \times 1$

$= 2^2 \times 13 \times 3$

(iii) 3825

- By Taking the LCM of 3825, we will get the product of its prime factor.

3	3825
3	1275
5	425
5	85
17	17
	1

Hence,

3825

$= 3 \times 3 \times 5 \times 5 \times 17 \times 1$

$= 3^2 \times 5^2 \times 17$

(iii) 5005

- By Taking the LCM of 5005, we will get the product of its prime factor.

5	5005
7	1001
11	143
13	13
	1

Hence,

5005

$= 5 \times 7 \times 11 \times 13 \times 1$

$= 5 \times 7 \times 11 \times 13$

(v) 7429

- By Taking the LCM of 7429, we will get the product of its prime factor.

17	7429
19	437
23	23
	1

Hence,

7429

$= 17 \times 19 \times 23 \times 1$

$= 17 \times 19 \times 23$

Thanks

For watching