Chapter 1: Real Numbers

Exercise 1.2 (Page of Grade 10 NCERT Textbook)

Q1. Express each number as a product of its prime factors:

(i) 140 (ii) 156 (iii) 3825 (iv) 5005 (v) 7429

Difficulty Level: Easy

What is given /known?

A number.

What is the unknown?
The expression of the given number as a product of its prime factors.

Reasoning:
Find the prime factors of the given numbers by prime factorization method and then multiply the obtained prime numbers to get the product of the prime numbers.

Solution:

(i) 140

$$\text{Prime factors of } 140 = 2, 2, 5, 7$$
$$= 2^2 \times 5 \times 7$$

(ii) 156

$$\text{Prime factors of } 156 = 2 \times 2 \times 3 \times 13$$
$$= 2^2 \times 3 \times 13$$

(iii) 3825

$$\text{Prime factors of } 3825 = 3 \times 3 \times 5 \times 5 \times 17$$
$$= 3^2 \times 5^2 \times 17$$

(iv) 5005

$$\text{Prime factors of } 5005 = 5 \times 7 \times 11 \times 13$$

(v) 7429

$$\text{Prime factors of } 7429 = 17 \times 19 \times 23$$

Maths Chapter Real Numbers Class 10

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Maths Chapter Real Numbers Class 10:

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