

## EXERCISE

### SHORT ANSWER TYPE

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1. Write the following sets in the roaster form:

(i)  $A = \{x : x \in \mathbb{R}, 2x + 11 = 15\}$

(ii)  $B = \{x \mid x^2 = x, x \in \mathbb{R}\}$

(iii)  $C = \{x \mid x \text{ is a positive factor of a prime number } p\}$

**Solution:**

(i) According to the question,

$$A = \{x : x \in \mathbb{R}, 2x + 11 = 15\}$$

Roster form,

$$2x + 11 = 15$$

$$\Rightarrow 2x = 15 - 11$$

$$\Rightarrow 2x = 4$$

$$\Rightarrow x = 2$$

$$\text{Hence, } A = \{2\}$$

(ii) According to the question,

$$B = \{x \mid x^2 = x, x \in \mathbb{R}\}$$

Roster form,

$$x^2 = x$$

$$\Rightarrow x^2 - x = 0$$

$$\Rightarrow x(x - 1) = 0$$

$$\Rightarrow x = 0 \text{ or } 1$$

$$\text{Hence, } B = \{0, 1\}$$

(iii) According to the question,

$$C = \{x \mid x \text{ is a positive factor of a prime number } p\}$$

Roster form,

Only possible positive factors of a prime number  $p = 1$  and  $p$  itself.

Therefore,

$$x = 1 \text{ or } p$$

$$\text{Hence, } C = \{1, p\}$$

2. Write the following sets in the roaster form:

(i)  $D = \{t \mid t^3 = t, t \in \mathbb{R}\}$

(ii)  $E = \left\{w \mid \frac{w-2}{w+3} = 3, w \in \mathbb{R}\right\}$

(iii)  $F = \{x \mid x^4 - 5x^2 + 6 = 0, x \in \mathbb{R}\}$

**Solution:**

(i) According to the question,

$$D = \{t \mid t^3 = t, t \in \mathbb{R}\}$$

# Ncert Maths Exemplar Guide

**G Orfield**



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