

1. Determine whether  $*$  is a binary operation on the sets given below.

(i)  $a * b = a \cdot |b|$  on  $\mathbb{R}$  (ii)  $a * b = \min(a, b)$  on  $A = \{1, 2, 3, 4, 5\}$

(iii)  $(a * b) = a\sqrt{b}$  is binary on  $\mathbb{R}$ .

1. கீழே கொடுக்கப்பட்ட உள்ள கணங்களின் மீது வரையறுக்கப்பட்டிருக்கும்  $*$  ஓர் இருபடிச் செயலியா எனத் தீர்மானிக்க.

(i)  $\mathbb{R}$  -ல் மீது  $a * b = a \cdot |b|$

(ii)  $A = \{1, 2, 3, 4, 5\}$  -ல் மீது  $a * b = \min(a, b)$  -ல் சிதறியது.

(iii)  $\mathbb{R}$  -ல் மீது  $(a * b) = a\sqrt{b}$

### Solution:

(i) Let  $a, b \in \mathbb{R}$

Then  $|b| \in \mathbb{R}$

Hence,  $a \cdot |b| \in \mathbb{R}, \forall a, b \in \mathbb{R}$

So,  $*$  is the binary operation on  $\mathbb{R}$ .

(ii)  $a * b = \min(a, b)$  on  $A = \{1, 2, 3, 4, 5\}$

Let  $a, b \in A$

Then  $\min(a, b) \in A$

For Example,

$\min(3, 4) = 3 \in A,$

$\min(2, 5) = 2 \in A$

So,  $a * b = \min(a, b) \in A, \forall a, b \in A$

So,  $*$  is the binary operation on  $A$ .

(iii)  $(a * b) = a\sqrt{b}$  is binary on  $\mathbb{R}$

Let  $a, b \in \mathbb{R}$

If  $b$  is positive then  $\sqrt{b} \in \mathbb{R}$ , but even though  $-b \in \mathbb{R}, \sqrt{-b} \notin \mathbb{R}$ .

For example 2,  $-4 \in \mathbb{R}$

But  $2\sqrt{-4} = 2\sqrt{2}i \notin \mathbb{R}$

So,  $*$  is not a binary operation on  $\mathbb{R}$

# Tn 12th Maths Solution

**Mike Jess**



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