

# Mathematics

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(Chapter - 1) (Integers) (Exercise 1.1)  
(Class - VII)

## Question 1:

Write down a pair of integers whose:

- (a) sum is  $-7$
- (b) difference is  $-10$
- (c) sum is  $0$

### Answer 1:

(a) One such pair whose sum is  $-7$ :

$$-5 + (-2) = -7$$

(b) One such pair whose difference is  $-10$ :

$$-2 - 8 = -10$$

(c) One such pair whose sum is  $0$ :

$$-5 + 5 = 0$$

## Question 2:

- (a) Write a pair of negative integers whose difference gives  $8$ .
- (b) Write a negative integer and a positive integer whose sum is  $-5$ .
- (c) Write a negative integer and a positive integer whose difference is  $-3$ .

### Answer 2:

(a)  $-2 - (-10) = 2 + 10 = 8$

(b)  $(-7) + 2 = -5$

(c)  $(-2) - 1 = -2 - 1 = -3$

## Question 3:

In a quiz, team A scored  $-40, 10, 0$  and team B scores  $10, 0, -40$  in three successive rounds. Which team scored more? Can we say that we can add integers in any order?

### Answer 3:

Team A scored  $-40, 10, 0$

Total score of Team A =  $-40 + 10 + 0 = -30$

Team B scored  $10, 0, -40$

Total score of Team B =  $10 + 0 + (-40) = 10 + 0 - 40 = -30$

Thus, scores of both teams are same.

Yes, we can add integers in any order due to commutative property.

## Question 4:

Fill in the blanks to make the following statements true:

(i)  $(-5) + (-8) = (-8) + (.....)$

(ii)  $-53 + ..... = -53$

(iii)  $17 + ..... = 0$

(iv)  $[13 + (-12)] + (.....) = 13 + [(-12) + (-7)]$

(v)  $(-4) + [15 + (-3)] = [-4 + 15] + .....$

### Answer 4:

(i)  $(-5) + (-8) = (-8) + (-5)$

[Commutative property]

(ii)  $-53 + 0 = -53$

[Zero additive property]

(iii)  $17 + (-17) = 0$

[Additive identity]

(iv)  $[13 + (12)] + (-7) = 13 + [(-12) + (-7)]$

[Associative property]

(v)  $(-4) + [15 + (-3)] = [-4 + 15] + (-3)$

[Associative property]

# Guide For Class 7 Maths

**J Elliott**

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