

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 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) $(-5) + (-8) = (-8) + (\dots)$

(ii) $-53 + \dots = -53$

(iii) $17 + \dots = 0$

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

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

✍ **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

A. S. Kalra



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