

CBSE Class –VII Mathematics
NCERT Solutions
Chapter 1 Integers (Ex. 1.2)

Question 1. Write down a pair of integers whose:

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

Answer: (a) One such pair whose sum is -7 : (-5, -2) (-10, 3)

(b) One such pair whose difference is -10: (-2, 8), (-11, -1)

(c) One such pair whose sum is 0: (5,5) ,(6,6)

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: (a) (-2, -10) (-5, -13)

(b) (-7, 2), (-9,4)

(c) (-1, 2), (-2, 1)

Question 3. In a quiz, team A scored -40,10, 0 and team B scores 0, 10, -40 in three successive rounds. Which team scored more? Can we say that we can add integers in any order?

Answer: Team A scored -40,10, 0

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

Team B scored 0, 10, -40

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

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

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

(iii) $17 + \dots\dots = 0$

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

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

Answer: (i) $(-5) + (-8) = (-8) + \underline{(-5)}$ [Commutative property]

(ii) $-53 + \underline{0} = -53$ [Zero additive property]

(iii) $17 + \underline{(-17)} = 0$ (Additive identity)

(iv) $[13 + (-12)] + \underline{(-7)} = 13 + [(-12) + (-7)]$ [Associative property]

$(-4) + [15 + (-3)] = [-4 + 15] + \underline{(-3)}$ [Associative property]