

Class -VII Mathematics (Ex. 1.2)
Questions

1. Write down a pair of integers whose:
 - (a) sum is -7
 - (b) difference is -10
 - (c) sum is 0

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 .

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?

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

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 : $-5 + 5 = 0$

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

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

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

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.

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]