

## *Exercise 1.2*

### **Question 1:**

Write down a pair of integers whose:

- (a) sum is  $-7$
- (b) difference is  $-10$
- (a) 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.

*(Chapter – 1) (Integers)*  
**(Class – VII)**

**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) $(-5) + (-8) = (-8) + \underline{(-5)}$                 | [Commutative property]   |
| (ii) $-53 + \underline{0} = -53$                            | [Zero additive property] |
| (i) $17 + \underline{(-17)} = 0$                            | (Additive identity)      |
| (ii) $[13 + (12)] + \underline{(-7)} = 13 + [(-12) + (-7)]$ | [Associative property]   |
| (iii) $(-4) + [15 + (-3)] = [-4 + 15] + \underline{(-3)}$   | [Associative property]   |