CLASS NOTES-ANSWERS

EXERCISE 1.2

1. Write down a pair of integers whose:

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

Answer:

(a) Let us take a pair of integers -8 and +1

∴ (– 8) + 1 = – 7

(b) Let us take a pair of integers -12 and - 2

∴ -12 – (-2) = -12 + 2

= -10

(c) Let us take a pair of integers 5 and -5

∴ 5 + (– 5) = 0

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:

(a) Let us take - 2 and -10

∴ Difference = (–2) – (–10)

= -2 + 10

= 8

(b) Let us take -10 and 5

∴ Sum = (–10) + 5

= –5

(c) Let us take 2 and 1

∴ Difference = (–2) – 1

= –3

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

Answer: Scores of team A = – 40, 10, 0

∴ Total score of team A

= – 40 + 10 + 0

= – 30

Scores of team B = 10, 0, – 40

∴ Total scores of team B

= 10 + 0 + (– 40)

= – 30

So, the scores of both the teams are equal.

Yes, we can add integers in any order.

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:

(i) (–5) + (–8) = (–8) + (–5)

[Commutative property of addition]

(ii) – 53 + 0 = –53

[Additive Identity]

(iii) 17 + (–17) = 0

[Additive inverse]

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

[Associative property of addition]

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

[Associative property of addition]