Mathematics

(www.tiwariacademy.com) (Chapter - 1) (Integers)

(Class - VII)

Exercise 1.2

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

Ouestion 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:

- (-5)+(-8)=(-8)+(.....)(i)
- $-53 + \dots = -53$ (ii)
- $17 + \dots = 0$ (iii)
- [13+(-12)]+(....)=13+[(-12)+(-7)](iv)
- (-4)+[15+(-3)]=[-4+15]+.....(v)

Answer 4:

(-5)+(-8)=(-8)+(-5)(i)

[Commutative property]

-53+0=-53(ii)

[Zero additive property]

17 + (-17) = 0(i)

- (Additive identity)
- $\lceil 13 + (12) \rceil + (-7) = 13 + \lceil (-12) + (-7) \rceil$ (ii)
- [Associative property]
- (-4)+[15+(-3)]=[-4+15]+(-3)(iii)
- [Associative property]

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