

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 : $-5 + 5 = 0$

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.

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 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]

8) Find

i) $(-3) \times (-6) \times (-2) \times (-1)$

ii) $(-12) \times (-11) \times (10)$

iii) $(-320) \times (-1)$

iv) $(-18) \times 0 \times (-16)$

v) $9 \times (-5) \times (-3)$

vi) $(-41) \times 10$

vii) $(-21) \times (-30)$

viii) $(-1) \times 225$

ix) $(-22) \times (-1)$

x) $(-20) \times (-2) \times (-5) \times 7$

Multiple Choice Questions

Question 1.

$$3 \times 10000 + 0 \times 1000 + 8 \times 100 + 0 \times 10 + 7 \times 1$$

is same as

- (A) 30087
- (B) 30807
- (C) 3807
- (D) 3087

Question 2. 1 billion is equal to

- (A) 100 millions
- (B) 10 millions
- (C) 1000 lakhs
- (D) 10000 lakhs

Question 3. Which of the following numbers in Roman Numerals is incorrect?

- (A) LXII
- (B) XCI
- (C) LC
- (D) XLIV