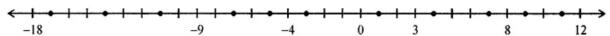
Test Answers – Integers

VII

CBSE

Q1. Some integers are marked on the following number line:



- (i) Write these integers in ascending order.
- (ii) Write these integers in descending order.
- (iii) Few dots have been marked on the above number line. Write an appropriate integer at each dot.

Answer:

- (i) Given integers in ascending order = -18, -9, -4, 0, 3, 8, 12
- (ii) Given integers in descending order = 12, 8, 3, 0, -4, -9, -18
- (iii) A few dots have been marked on the above number line,

So, integers at each dot = -17, -14, -11, -7, -5, -3, 1, 4, 7, 9, 11

Q2. In a quiz, positive marks are given for correct answers, and negative marks are given for incorrect answers. If Rohit's scores in five successive rounds were 15, -3, -7, 12, and 8, what was his total at the end?

Answer:

From the question, it is given that,

Rohit's scores in five successive rounds were 15, -3, -7, 12 and 8

We have to find his total at the end,

Then,

$$= 15 - 3 - 7 + 12 + 8$$

$$= 15 + 12 + 8 - 3 - 7$$

Therefore, Rohit's total score is 25.

ney to achieve excellence Test Answers – Integers

CBSE

VII

Q3. Evaluate the following:

(ii)
$$|13 - 5| - |-9|$$

(iii)
$$|35 - 21| - |8 - 3|$$

Answer:

(i)
$$|-13| - |9| = 13 - 9 = 4$$

(ii)
$$|13 - 5| - |-9| = |8| - |-9| = 8 - 9 = -1$$

(iii)
$$|35 - 21| - |8 - 3| = |14| - |5| = 14 - 5 = 9$$

Q4. Verify the following:

(i)
$$37 \times [6 + (-3)] = 37 \times 6 + 37 \times (-3)$$

(ii)
$$(-21) \times [(-6) + (-4)] = (-21) \times (-6) + (-21) \times (-4)$$

Answer:

(i)
$$37 \times [6 + (-3)] = 37 \times 6 + 37 \times (-3)$$

LHS =
$$37 \times [6 - 3] = 37 \times 3 = 111$$

RHS =
$$37 \times 6 + 37 \times (-3) = 222 - 111 = 111$$

(ii)
$$(-21) \times [(-6) + (-4)] = (-21) \times (-6) + (-21) \times (-4)$$

LHS =
$$(-21) \times [(-6) + (-4)] = -21 \times [-6 - 4] = (-21) \times (-10) = +210$$

RHS =
$$(-21) \times (-6) + (-21) \times (-4) = 126 + 84 = 210$$

LHS = RHS

Q5. Find the sum of integers -72, 237, 84, 72, -184, -37.

Answer:

Sum of integers -72, 237, 84, 72, -184, -37

= 100

ve excellence Test Answers – Integers VII CBSE

Q6. $7 - 8 \div (-2) + 3 \times (-4)$

Answer:

$$7 - 8 \div (-2) + 3 \times (-4)$$

$$= 7 + \frac{-8}{-2} + 3 \times (-4)$$

$$= 7 + 4 + 3 \times (-4)$$
 (Use of BODMAS)

$$= 7 + 4 - 12$$

$$= 11 - 12$$

= -1

Q7. Use the sign >, < or = in the box to make the following statements true:

(i)
$$(-11) + (-7)$$
 $(-11) - (-7)$

(ii)
$$23 - 41 + 11 \dots 23 - 41 - 11$$

(iii)
$$40 - (-39) + (-5) \dots 40 + (-39) - (-5)$$

(iv)
$$(-3) + 13 - (15) \dots 25 - (-2) + (-33)$$

Answer:

$$\Rightarrow$$
 74 > 6

$$(iv) (-3) + 13 - (15) \dots 25 - (-2) + (-33)$$

$$\Rightarrow -5 > -6$$



ourney to achieve excellence Test Answers – Integers VII CBSE

Q8. In a quiz, team A scored -30, 20, 0 and team B scored 20, 0, -30 in three successive rounds. Which team scored more? Can we say that we can add integers in any order?

Answer:

In a quiz,

Team A scored -30, 20, 0 and

Team B scored 20, 0, -30 in three rounds

Sum of scores of A team = -30 + 20 + 0 = -10

Sum of scores of B team = 20 + 0 - 30 = -10

The scores of both the team are equal i.e. -10

Yes, by adding the scores in any order, the result will be the same.

Q9. Verify that $(a \div b) \div c \neq a \div (b \div c)$ for a = -225, b = 15 and c = -3. Answer:

LHS =
$$(a \div b) \div c = \frac{a}{b} \div c = \frac{a}{bc}$$

RHS =
$$a \div (b \div c) = a \div \frac{b}{c} = a \times \frac{c}{b} = \frac{ac}{b}$$

$$a = -225$$
, $b = 15$, $c = -3$

:. LHS =
$$(a \div b) \div c = \frac{-225}{15} \div (-3)$$

$$=(-15)\div(-3)=\frac{-15}{-3}=5$$

RHS =
$$a \div (b \div c) = -225 \div [15 \div (-3)]$$

$$= -225 \div \left(\frac{15}{-3}\right) = (-225) \div (-5)$$

$$=\frac{-225}{-5}=45$$

: LHS ≠ RHS