

Board – CBSE

Class – 6

Topic – INTEGERS

1. Using the following number line, fill in the blanks:

- (i) An integer, on a given number line, is \_\_\_\_\_ than every number on its left
- (ii) An integer, on a given number line, is greater than every number on its \_\_\_\_\_.
- (iii) 4 is greater than -4 implies 4 is on the \_\_\_\_\_ of -4.
- (iv) -5 is \_\_\_\_\_ than 3 and 7 is \_\_\_\_\_ than -5.
- (v) -6 is \_\_\_\_\_ than -10 and 3 is \_\_\_\_\_ than 9.
- (vi) 8 is \_\_\_\_\_ than 0 and -6 is \_\_\_\_\_ than -1.
- (vii) -7 is \_\_\_\_\_ than 6 and opposite of -4 is \_\_\_\_\_ than opposite of -9.
- (viii) -12 is \_\_\_\_\_ than -8 and -10 is \_\_\_\_\_ than opposite of 5.
- (ix) If +15 represents gain of \$15; then +45 represents \_\_\_\_\_; and -75 represents \_\_\_\_\_.
- (x) If 30 m below sea level is represented by -30; then -95 represents \_\_\_\_\_; and +450 represents \_\_\_\_\_.
- (xi) If fall in temperature by  $15^{\circ}\text{C}$  is denoted by +15, then -115 denotes \_\_\_\_\_; and +47 denotes \_\_\_\_\_.

2. Find the integer using the number line, which is:

- (i) 5 more than 3
- (ii) 9 less than 4
- (iii) 12 more than -4
- (iv) 8 less than 3
- (v) 7 less than 0
- (vi) 4 less than -6

3. State whether the statements are true or false:

- (i) The smallest integer is 0.
- (ii) The opposite of -17 is 17.

- (iii) The opposite of zero is zero.
- (iv) Every negative integer is smaller than 0.
- (v) 0 is greater than every positive integer.
- (vi) Since zero is neither negative nor positive, it is not an integer.

4. In each case, arrange the given integers in ascending order:

- (i) -8, 0, -5, 5, 4, -1
- (ii) 3, -3, 4, -7, 0, -6, 2

5. Add the following integers:

- (i) + 84 and + 45
- (ii) - 63 and - 23
- (iii) -44 and + 35
- (iv) +12 and -20
- (v) + 2245 and -1013

6. Fill in the blanks:

- (i)  $15 + 27 = \dots\dots\dots$
- (ii)  $27 + 15 = \dots\dots\dots$
- (iii)  $27 + 0 = \dots\dots\dots$
- (iv)  $0 + 15 = \dots\dots\dots$
- (v)  $7 + \dots\dots\dots = 0$
- (vi)  $(-9) + \dots\dots\dots = 0$

7. Add the following:

- (i)  $7 + 9$
- (ii)  $(-4) + 9$
- (iii)  $2 + (-2)$
- (iv)  $(-7) + (-6)$

(v)  $(-8) + (-4) + (-9)$

8. Evaluate the following:

(i)  $(+423) + (253)$

(ii)  $(-423) + (+253)$

(iii)  $(+423) + (-253)$

(iv)  $(-423) + (-253)$

9. Find the value of the following:

(i)  $3 + 4 + (-6) + (-6) + 2$

(ii)  $11 + 53 + (-40) - 29$

(iii)  $(-98) + (-43) + 69 + 77$

(iv)  $41 + (-73) + 23 - 85$

10. In each case, arrange the given integers in descending order:

(i)  $-5, -3, 8, 15, 0, -2$

(ii)  $12, 23, -11, 0, 7, 6$

(iii)  $-1, -21, -31, 12, 5, 11$