

CHAPTER-6

NEGATIVE NUMBERS AND INTEGERS

WORKSHEET

1. Write the opposite of each of the following:

- (i) Increase in population
- (ii) Depositing money in a bank
- (iii) Earning money
- (iv) Going North
- (v) Gaining a weight of 4kg
- (vi) A loss of Rs 1000
- (vii) 25
- (viii) - 15

2. Indicate the following by using integers:

- (i) 25° above zero
- (ii) 5° below zero
- (iii) A profit of Rs 800
- (iv) A deposit of Rs 2500
- (v) 3km above sea level
- (vi) 2km below level

3. In each of the following pairs, replace * with < or > to make the statement true:

- (i) $3 * 0$
- (ii) $0 * - 8$
- (iii) $- 9 * - 3$
- (iv) $- 3 * 3$
- (v) $5 * - 1$
- (vi) $- 13 * 0$
- (vii) $- 8 * - 18$
- (viii) $2 * 5$
- (ix) $0 * 3$
- (x) $0 * - 7$
- (xi) $- 18 * 15$

(xii) $- 235 * - 532$

(xiv) $- 20 * 20$

4. In each of the following pairs, state which integer is greater :

(i) $- 15, - 23$

(ii) $- 12, 15$

(iii) $0, 8$

(iv) $0, - 3$

5. In each of the following pairs, state which integer is smaller :

(i) $0, - 6$

(ii) $2, - 3$

(iii) $15, - 51$

(iv) $13, 0$

(v) $(-7) - (+5)$ (vi) $(+4) - (-2)$ (vii) $(-8) - (-4)$

6. For each of the statements given below, state whether it is 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

7. Which number in each of the following pairs is smaller?

(i) $0, -4$

(ii) $-3, 12$

(iii) $8, 13$

(iv) $- 15, -27$

8. Which number in each of the following pairs is larger?

(i) $3, -4$

(ii) $- 12, - 8$

(iii) $0, 7$

(iv) $12, - 18$

9. How many integers are between?

- (i) -4 and 3
- (ii) 5 and 12
- (iii) -9 and -2
- (iv) 0 and 5

10. Write all integers between:

- (i) -7 and 3
- (ii) -2 and 2
- (iii) -4 and 0
- (iv) 0 and 3
- (iv) $12, -18$

11. Write all integers between:

- (i) -7 and 3
- (ii) -2 and 2
- (iii) -4 and 0
- (iv) 0 and 3

12. Write the absolute value of each of the following:

- (i) 14
- (ii) -25
- (iii) 0
- (iv) -125
- (v) -248
- (vi) $a - 7$, if a is greater than 7
- (vii) $a - 7$, if $a - 2$ is less than 7
- (viii) $a + 4$, if a is greater than -4
- (ix) $a + 4$ if a is less than -4

13. (i) Write 4 negative integers less than -10 .

(ii) Write 6 negative integers just greater than -12 .

14. Which of the following statements are true?

- (i) The smallest integer is zero.
- (ii) The opposite of zero is zero.
- (iii) Zero is not an integer.

- (iv) 0 is larger than every negative integer.
- (v) The absolute value of an integer is greater than the integer.
- (vi) A positive integer is greater than its opposite.
- (vii) Every negative integer is less than every natural number.
- (viii) 0 is the smallest positive integer.

15. Find the additive inverse of each of the following integers:

- (i) 52
- (ii) - 176
- (iii) 0
- (iv) 1

