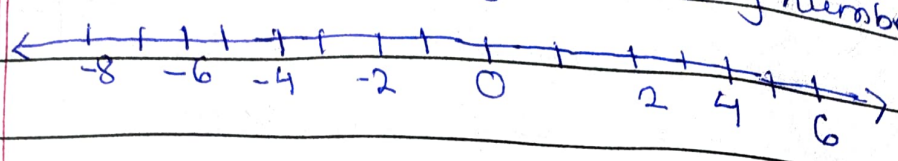
Exercise - 7(A)

1. Fill in the blanks, using the following number line:



(i) An integer, on the given number line is greater than every number to its right.

(ii) An integer, on the given number line is smaller than every number to its left.

(iii) 2 is the greater than -4 implies 2 is to the right side of -4.

(iv) -3 is smaller than 2 and 3 is greater than -2.

(v) -4 is greater than -8 and 4 is smaller than 8.

(vi) 5 is greater than 2 and -5 is smaller than -2.

(vii) -6 is smaller than 3 and the opposite of -6 is greater than opposite of 3.

(viii) 8 is greater than -5 and -8 is smaller than 5.

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

(i) (-15), -23

Ans- -15 is greater than (-23)

(ii) 12, (-15)

Ans- (-12) is smaller than -15

(iii) 0, (8)

0 is smaller than 8

(iv) (0), -3

0 is greater than (-3)

3. In each of the following pairs, state which integer is small

(i) 0, (-6)

Ans- 0 is greater than -6

(ii) 15, (-51)

15 is greater than (-51)

(iii) 2, (-3)

(iv) 13, 0

Ans 2 is greater than (-3) 13 is greater than 0

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

(i) 3 * 0
Ans 3 > 0

(ii) 0 * -8
Ans 0 > -8

(iii) -9 * -3
Ans -9 < -3

(iv) -3 * 3
Ans -3 < 3

(v) 8 * -1

(vi) -13 * 0
(vi) -13 * 0
-13 < 0

(vii) -8 * -18
-8 > 18

5. In each case, arrange the given integers in ascending order, using a number line:

(i) -8, 0, -5, 5, 4, -1
Ans -8, -5, -1, 0, 4, 5

(ii) 3, -3, 4, -7, 0, -6, 2
-7, -6, -3, 0, 2, 3, 4

6. In each case, arrange the given integers in descending order, using a number line:

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

(ii) 13, 23, -11, 0, 7, 6
-11, 0, 6, 7, 13, 23

7. For each of the statements given below, state whether it is true or false:

(i) The smallest integer is 0. False
(ii) The opposite of -17 is 17. True
(iii) The opposite of zero is zero. True
(iv) Every negative integer is smaller than 0. True

(v) 0 is greater than every positive integer. False

(vi). Since zero is neither negative nor positive, it is not an integer. False