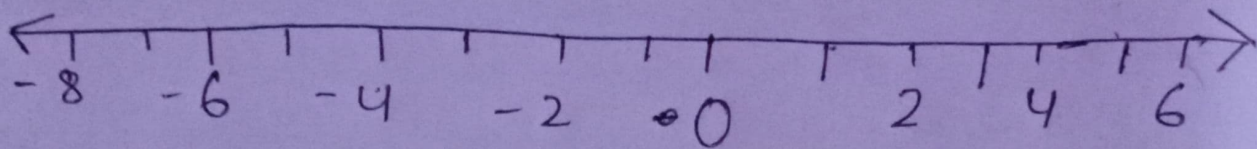


## Exercise 7(A)

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



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

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

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

iv) -3 is less than 2 and 3 is greater than -2.

v) -4 is greater than -8 and 4 is less than 8.

vi) 5 is greater than 2 and -5 is less than -2.

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

viii) 8 is greater than -5 and -8 is less than 5.

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

i  $-15, -23$

ii  $-12, 15$

iii  $0, 8$

iv  $0, -3$

Answer

i  $-15$

ii  $15$

iii  $8$

iv  $0$

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

i  $0, -6$

ii  $2, -3$

iii  $15, -51$

iv  $13, 0$

Answer

i  $-6$

ii  $-3$

iii  $-51$

iv  $0$

4 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  $5 * -1$

$$\text{vi) } -13 < 0$$

$$\text{vii) } -8 > -18$$

Answer

$$\text{i) } 3 > 0$$

$$\text{ii) } 0 > -8$$

$$\text{iii) } -9 < -3$$

$$\text{iv) } -3 < 3$$

$$\text{v) } 5 > -1$$

$$\text{vi) } -13 < 0$$

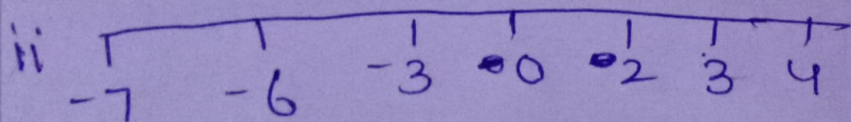
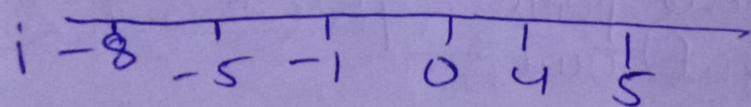
$$\text{vii) } -8 > -18$$

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

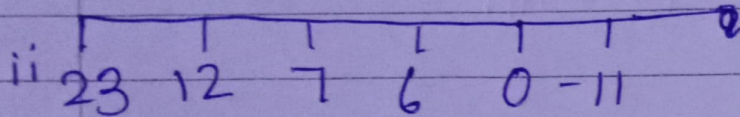
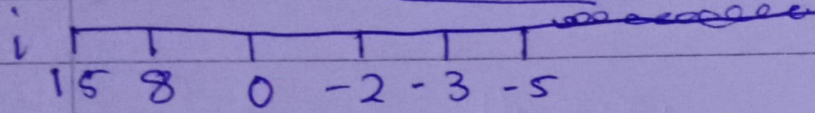
$$\text{i) } -8, 0, -5, 5, 4, -1$$

$$\text{ii) } 3, -3, 4, -7, 0, -6, 2$$

Answer



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

i  $-5, -3, 8, 15, 0, -2$ ii  $12, ~~23~~, 23, -11, 0, 7, 6$ Answer

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

i The smaller integer is 0. F

ii The opposite of  $-17$  is  $17$ . T

iii The opposite of zero is zero. T

iv Every negative integer is smaller than 0. T

v 0 is greater than every positive integer. F

vi Since zero is neither negative nor positive, it is not an integer. F