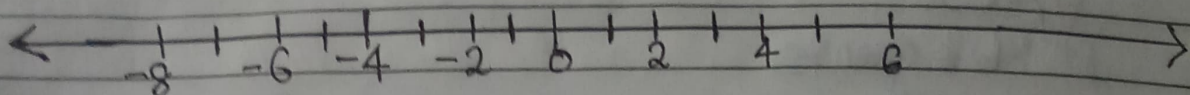


Exercise (7A)

1) Fill in the blanks using 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 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 which integer is greatest.

i) -15, -23

Ans: -15 is greater

ii) -12, 15

Ans: 15 is greater

ii) $0, 8$

Ans: 8 is greater

iii)

iv) $0, -3$

Ans: 0 is greater

3. In each of the following which integer is smaller.

i) $0, -6$

Ans: -6 is smaller

ii) $2, -3$

Ans: -3 is smaller

iii) $15, -51$

Ans: -51 is smaller

iv) $13, 0$

Ans: 0 is smaller

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

i) $3 * 0 =$

Ans: $3 > 0$

ii) $-3 * 3 =$

Ans: $-3 < 3$

iii) $0 * -8 =$

Ans: $0 > -8$

iv) $5 * -1 =$

Ans: $5 > -1$

v) $-9 * 3 =$

Ans: $-9 < 3$

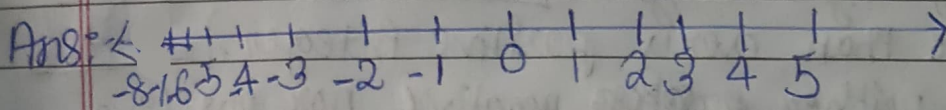
vi) $-13 * 0 =$

Ans: $-13 < 0$

vii) $-8 * -18 =$ Ans: $-8 > -18$

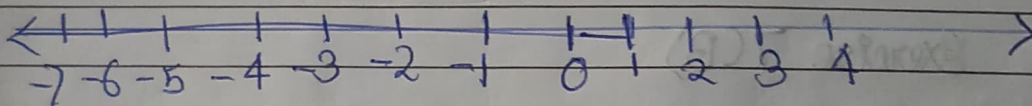
5. In each case arrange the given integers in ascending order, using a number line.

i) $-8, 0, -5, 5, 4, -1$



Ans: $-8, -5, -1, 0, 4, 5$

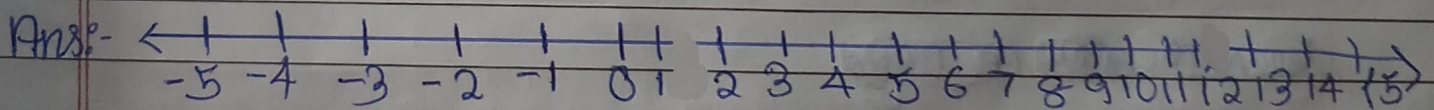
ii) $3, -3, 4, -7, 0, -6, 2$



Ans: $-7, -6, -3, 0, 2, 3, 4$

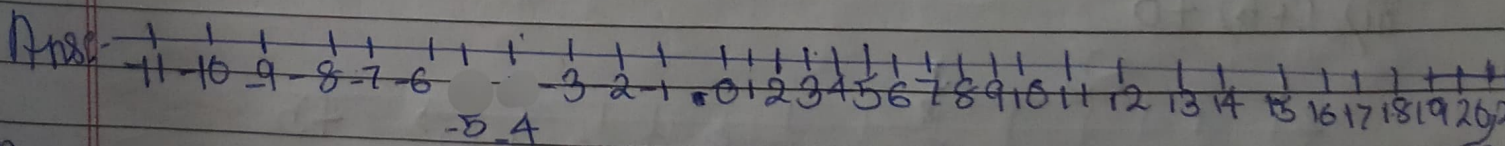
6. In each case arrange the given integers in descending order, using a number line.

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



Ans: $15, 8, 0, -2, -3, -5$

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



Ans: $23, 12, 7, 6, 0, -11$

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

- i) The smallest integer is 0. false
- iii) The opposite of zero is zero. true
- v) 0 is greater than every positive integer. false
- vi) Since zero is neither negative nor positive, it is not an integer. false
- ii) The opposite of -17 is 17. true
- iv) Every negative integer is smaller than 0. true