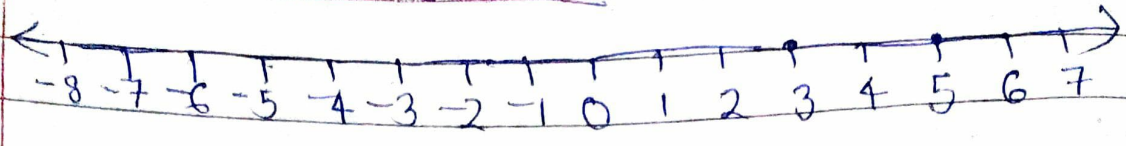


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### Ch-7 NumberLine



3, 5      $3 < 5$

$-2, -4 = -2 > -4$

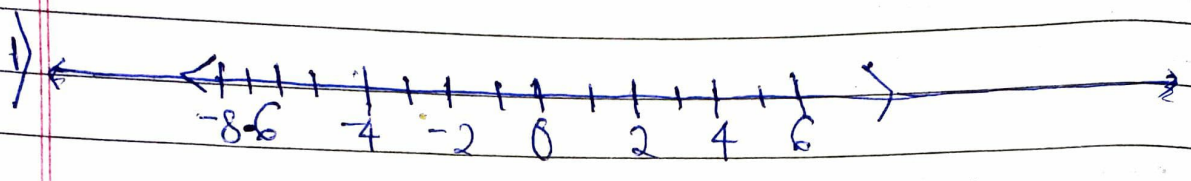
$-4, -7$

-4 is right to -7

∴ -4 will be greater

$-4 > -7$

### Exercise-7A'



i) An integer, on the given number line is greater, than every number on the 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 more than -8 and 4 is less than 8.

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

vii) -6 is more <sup>less</sup> ~~greater~~ 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) i) -15, -23

ans) -15 is greater as it is on the right of -23.

ii) -12, 15

ans) 15 is greater as it is on the right of -12.

iii) 0, 8

ans) 8 is greater as it is on the right of 0.

iv) 0, -3

ans) 0 is greater as it is on the right of -3.

3) i) 0, -6

ii) 2, -3

iii) 15, -51

iv) 13, 0

ans) i) -6 is smaller as it is on left of zero.

ii) -3 is smaller as it is on left of ~~two~~ zero.

iii) -51 is smaller as it is on left of 15.

iv) 0 is smaller as it is on left of 13.

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### Exercise - 7 'A'

i)  $3 > 0$

ans)  $3 > 0 = 3 > 0$

ii)  $0 > -8$

ans)  $0 > -8$

iii)  $-9 < -3$

ans)  $-9 < -3 = -9 < -3$

iv)  $-3 < 3$

ans)  $-3 < 3 = -3 < 3$

v)  $5 > -1$

ans)  $5 > -1 = 5 > -1$

vi)  $-13 < 0$

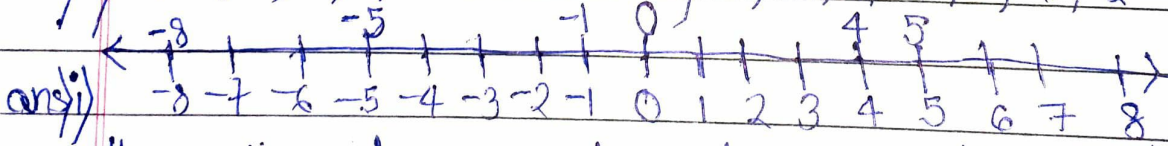
ans)  $-13 < 0 = -13 < 0$

vii)  $-8 > -18$

ans)  $-8 > -18 = -8 > -18$

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

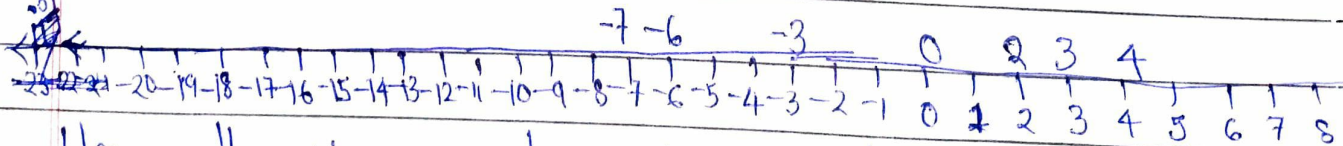
ii)  $3, -3, 4, -7, 0, -6, 2$



ans) i)

Hence the given numbers in ascending order are:  
 $-8 < -5 < -1 < 0 < 4 < 5$

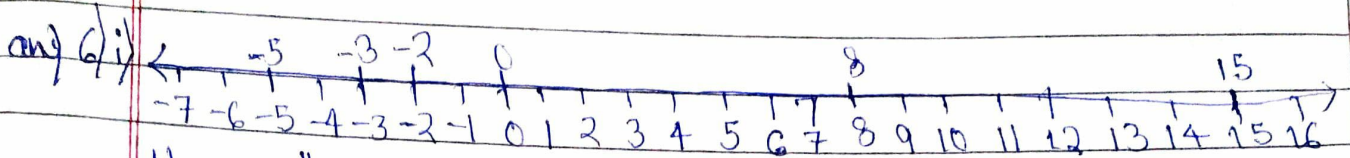
ii)



Hence the given numbers in ascending order are:  
 $-7 < -6 < -3 < 0 < 2 < 3 < 4$

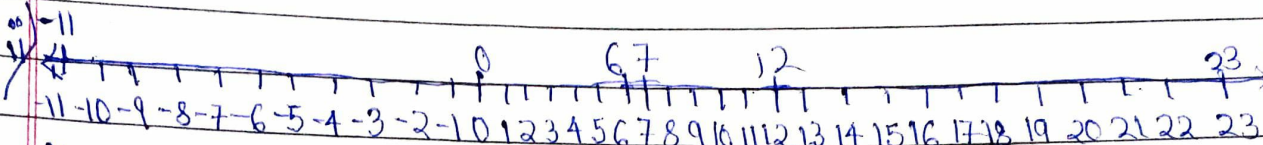
6) i)  $-5, -3, 8, 15, 0, -2$

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



Hence, the given numbers in descending order are:

ii)  $15 > 8 > 0 > -2 > -3 > -5$



Hence, the given numbers in descending order are:

$23 > 12 > 7 > 6 > 0 > -11$

7) 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