

ex 1.1
1) a) An integer, on the given number line, is greater than
every number on its left.

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

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

ii) -3 is smaller than 2 and 3 is greater than -2.

iii) -4 is greater than -8 and 4 is smaller than 8.

iv) 5 is greater than two and -5 is smaller than -2.

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

vi) 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 → 15 is greater than -12.

iii) 0, 8

Ans → 8 is greater than 0.

ii) $0, -3$

Ans \rightarrow 0 is greater than -3 .

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

i) $0, -6$

Ans \rightarrow -6 is smaller than 0 .

ii) $2, -3$

Ans \rightarrow -3 is smaller than 2 .

iii) $15, -51$

Ans \rightarrow -51 is smaller than 15 .

iv) $13, 0$

Ans \rightarrow 0 is smaller than 13 .

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

i) $3 * 0$

Ans \rightarrow $3 > 0$

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i) $0 * -8$

Ans $\rightarrow 0 > -8 = 0$ is greater than -8 .

ii) $-9 * -3$

Ans $\rightarrow -9 < -3 = -9$ is smaller than -3 .

iii) $-3 * 3$

Ans $\rightarrow -3 < 3 = -3$ is smaller than 3 .

iv) $5 * -1$

Ans $\rightarrow 5 > -1 = 5$ is greater than -1 .

v) $-13 * 0$

Ans $\rightarrow -13 < 0 = -13$ is smaller than 0 .

vi) $-8 * -18$

Ans $\rightarrow -8 > -18 = -8$ is greater than -18 .

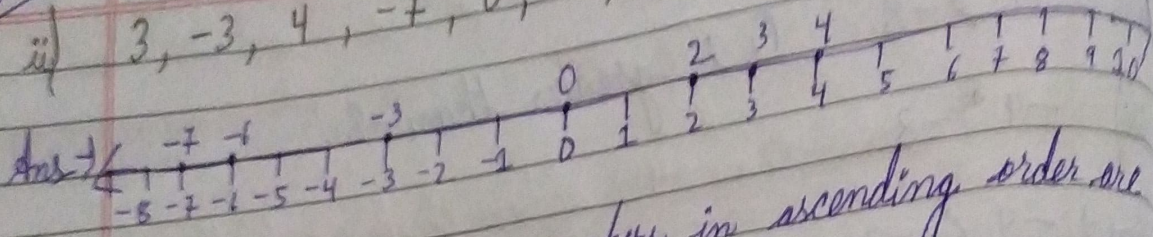
5) In each case, arrange the given integers in ascending order using a number line.

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

Ans \rightarrow $\overbrace{-8 \quad -5 \quad -1 \quad 0 \quad 4 \quad 5}^{\uparrow}$

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

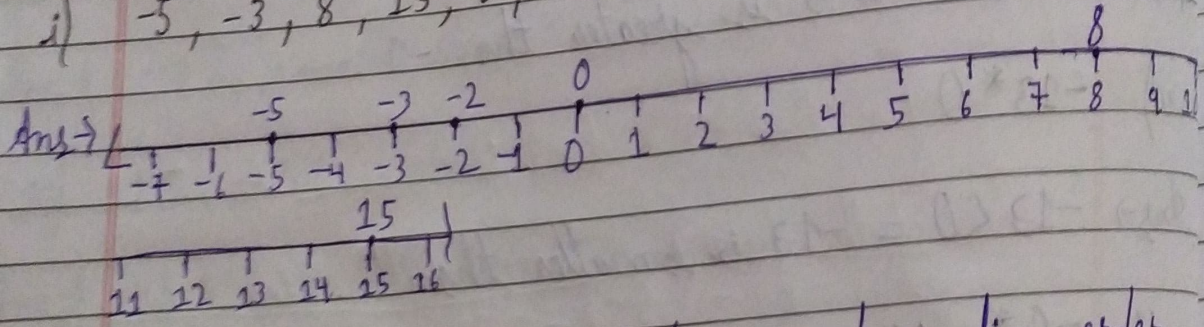


Therefore, the following numbers in ascending order are

-7, -6, -3, 0, 2, 3, 4.

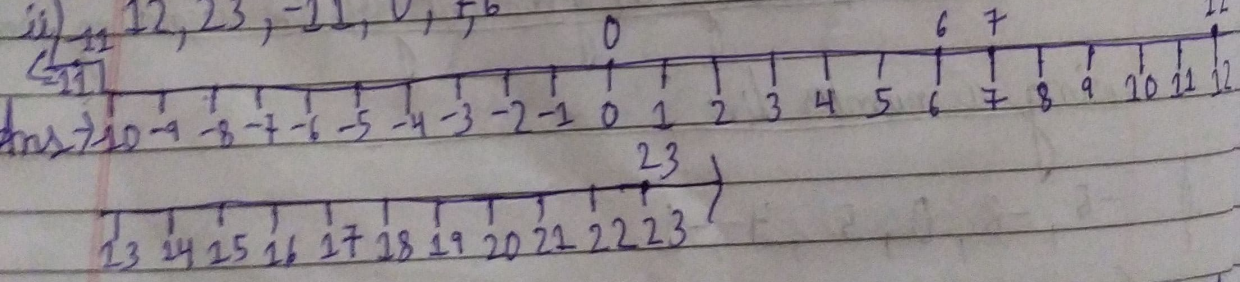
6) In each case, arrange the given integers in descending order, using a number line:

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



Therefore the following numbers in descending order are 15, 8, 0, -2, -3, -5

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



Therefore, the following numbers in descending order are 23, 12, 7, 6, 0, -11

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#) For each of the statements given below, state whether the statements are true or false.

i) The smallest integer is 0. True

ii) The opposite of -17 is 17. True

iii) The opposite of 0 is 0. 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

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I N D E X

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