

NUMBER LINE

SUBJECT : MATHEMATICS CHAPTER NUMBER: 07 CHAPTER NAME :Number Line SUBTOPIC :Number lines for Natural numbers, Whole numbers and Integers

PERIOD NO: 1

CHANGING YOUR TOMORROW

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Learning outcomes

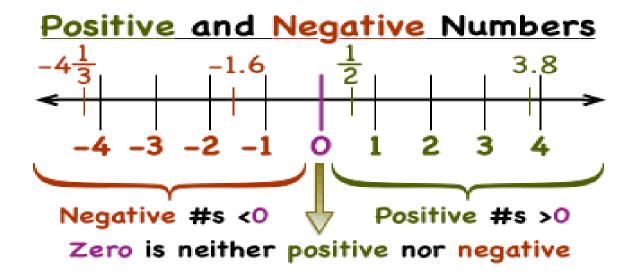
- Students will be able to draw number line.
- Students will be able to represent Natural numbers Whole Numbers and Integers on number line.



Negative numbers and Integers

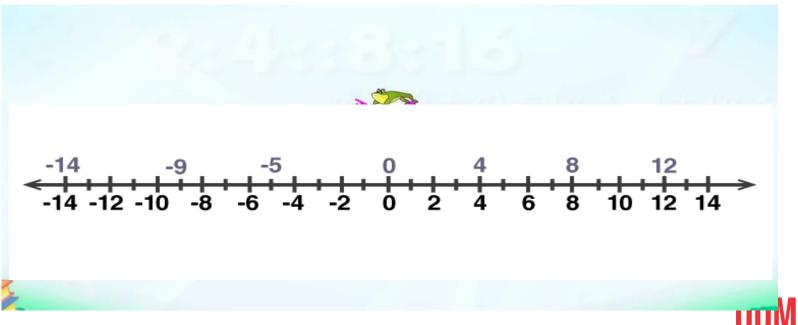
- Students will learn number line with the help of a video .
- https://www.youtube.com/watch?v=o3kli8g3mwl







Number Line





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 on 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

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

(i) 0, -6

(ii) 2, – 3

(iii) 15, – 51

(iv) 13, 0



Solution: (i) -15, -23

-15 lies on the right side of -23 on the number line. Therefore, -15 is greater than - 23

(ii) -12, 15

15 lies on the right side of -12 on the number line. Hence, 15 is greater than -12 (iii) 0, 8

8 lies on the right side of 0 on the number line. Therefore, 8 is greater than 0 (iv) 0, -3

0 lies on the right side of -3 on the number line. Hence, 0 is greater than -3



3.Ans:

(i) -6 lies on the left side of 0 on the number line. Hence, -6 is smaller than 0

(ii) -3 lies on the left side of 2 on the number line. Therefore, -3 is smaller than 2(iii) -51 lies on the left side of 15 on the number line. Hence, -51 is smaller than 15

(iv) 0 lies on the left side of 13 on the number line. Therefore, 0 is smaller than 13



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
(vi) - 13 * 0
(vii) - 8 * - 18



Solution:

(i) 3 lies on the right side of 0 on the number line \Rightarrow 3 > 0

Hence, 3 is greater than 0

(ii) 0 lies on the right side of -8 on the number line \Rightarrow 0 > -8

Therefore, 0 is greater than -8

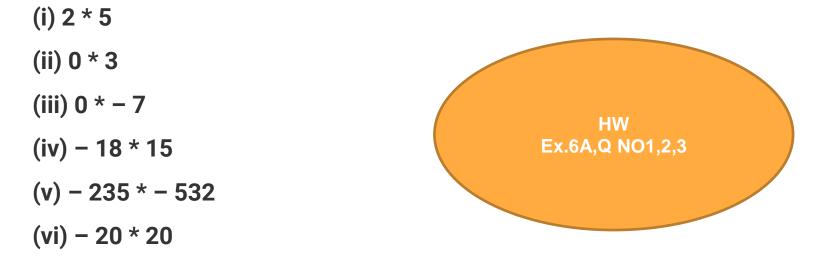
(iii) -9 lies on the left side of -3 on the number line \Rightarrow -9 < -3

Hence, -9 is smaller than -3



Additional Homework

1. Replace * in each of the following by < or > or = that the statement is true:





THANKING YOU ODM EDUCATIONAL GROUP

