

Chapter- 14

Introduction to negative numbers

STUDY NOTES

This lesson will help you to:

- To recognize negative numbers
- To represent negative numbers on number line.
- To order integers in ascending and descending form.

Important terms:

- **Natural numbers:** Numbers used to count natural things. Ex: 1,2,3,4,5,6...
- **Whole number:** ZERO added to the natural numbers are whole numbers. Ex: 0,1,2,3,4,5,6...
- **Negative numbers:** It represents the opposite of a natural number. It is a number which is less than zero.

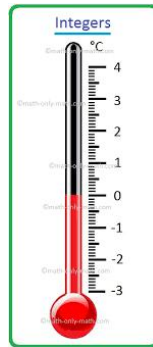


Examples: the opposites:

$$6 = -6$$

$$-13 = +13$$

$$100 = -100$$

Uses of negative numbers:**Representation of negative numbers on number line:**

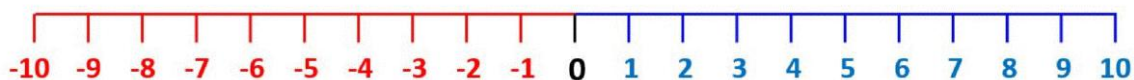
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Important notes:

- Every integer has its successor and predecessor.
- Every positive integer is greater than zero and negative integer.
- Zero is greater than all negative integers.
- All negative integers are smaller than zero and positive integers.
- Greater the number lesser the value.

Ordering of negative numbers:

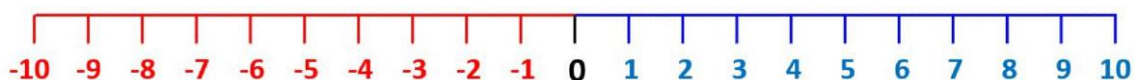
A)



Arrange in ascending order: -9, 5, 1, 0, -3, -7, 7.

If arrange the above in ascending order we'll get $-9 < -7 < -3 < 0 < 1 < 5 < 7$

A)



Arrange the in descending order: 0, 9, 4, -4, 5, -5, 1, -1

If arrange the above in descending order we'll get $9 > 5 > 4 > 1 > 0 > -1 > -4 > -5$

MIND MAP

