

#### **NEGATIVE NUMBERS AND INTEGERS**

SUBJECT : MATHEMATICS CHAPTER NUMBER: 06 CHAPTER NAME : NEGATIVE NUMBERS AND INTEGERS SUBTOPIC : Integers, Representation of Integers on Number Line PERIOD NO: 1

CHANGING YOUR TOMORROW

Website: www.odmegroup.org Email: info@odmps.org

#### Toll Free: 1800 120 2316

Sishu Vihar, Infocity Road, Patia, Bhubaneswar- 751024

### Learning outcomes

- Students will be able to connect negative numbers in daily life in .
- Students will develop application skill.
- Students will be able to represent negative numbers on number line.



#### **Negative numbers and Integers**

- Students will Learn negative numbers and integers with the help of a video.
- https://www.youtube.com/watch?v=3i2i9nmkG24(7.30)







## **Number Line**







Fill in the blanks:
 (i) Negative of -20 is .....

(ii) Negative of 0 is .....

(iii) Negative of 8 is .....

(iv) If 10 represents gain of ₹ 10, then -10 represents .....

(v) If going south is negative then going north is ......

(vi) Because 5 < 7, therefore -5 ............ -7.

(vii) If 3 > -2, then 3 is on the ..... of -2.

(viii) If -8 < -6, then -8 is on the ...... of -6.



i) Negative of -20 is 20
(ii) Negative of 0 is 0
(iii) Negative of 8 is -8
(iv) If 10 represents gain of ₹ 10, then -10 represents loss of ₹ 10
(v) If going south is negative then going north is positive
(vi) Because 5 < 7, therefore -5 greater than -7</li>
(vii) If 3 > -2, then 3 is on the right side of -2
(viii) If -8 < -6, then -8 is on the left side of -6</li>



2. Use a number line to write the following integers in ascending (increasing) order:

(i) -5, 8, 0, -9, 4, -14 and 12
(ii) -6, 7, 0, -9, 5 and 9
Solution:
(i) -5, 8, 0, -9, 4, -14 and 12

Draw a number line for given integers and mark on it all the integers as shown below





Hence, the given integers in the ascending order are:

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-14 < -9 < -5 < 0 < 4 < 8 < 12
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(ii) -6, 7, 0, -9, 5 and 9
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Draw a number line for given integers and mark on it all the integers as shown below



Hence, the given integers in the ascending order are:

-9 < -6 < 0 < 5 < 7 < 9

3. Use a number line to write the following integers in descending (decreasing) order:

(i) -10, 0, 3, -4, 12, 11, -1 and 5 (ii) -4, 3, -8, -12, -7 and 6



(i) -10, 0, 3, -4, 12, 11, -1 and 5

Draw a number line for the given integers and mark on it all the integers as shown below

Hence, the given integers in the descending order are:

12 > 11 > 5 > 3 > 0 > -1 > -4 > -10





(ii) -4, 3, -8, -12, -7 and 6 Draw a number line for the given integers and mark on it all the integers as shown below

Hence, the given integers in the descending order are: 6 > 3 > -4 > -7 > -8 > -12





## **Additional Homework**





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