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MONTH : NOVEMBER

SESSION : 12

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 14

CHAPTER NAME : INTRODUCTION TO NEGATIVE NUMBERS

SUB-TOPIC : INTRODUCTION & REPRESENTATION OF NEGATIVE NUMBERS ON NUMBER LINE.

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LEARNING OBJECTIVE :

Enable the students

- **To recognize negative numbers**
- **To represent negative numbers on number line.**

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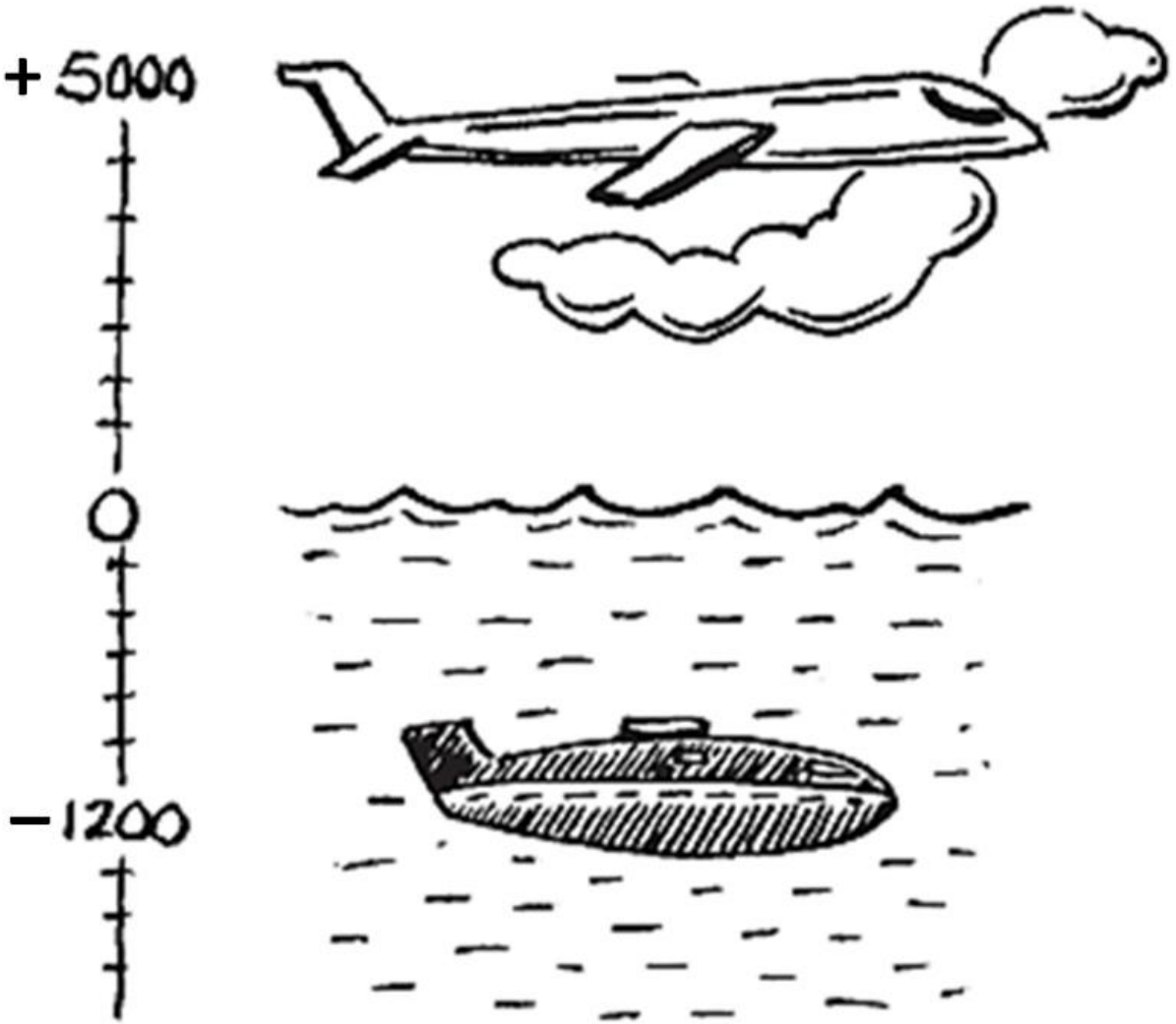

CONCEPT OF NUMBERS:

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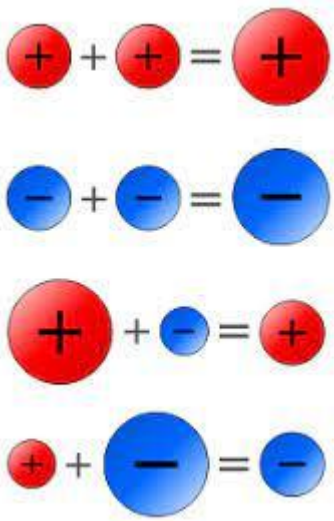
1. **Natural numbers:** Numbers used to count natural things. Ex: 1,2,3,4,5,6…

2. **Whole number:** ZERO added to the natural numbers are whole numbers. Ex: 0,1,2,3,4,5,6…

3. **Integers/ Negative numbers:** When a greater number is subtracted from a smaller number , the answer is a negative number.

Ex: 10 – 6 = 4

6 – 10 = - 4



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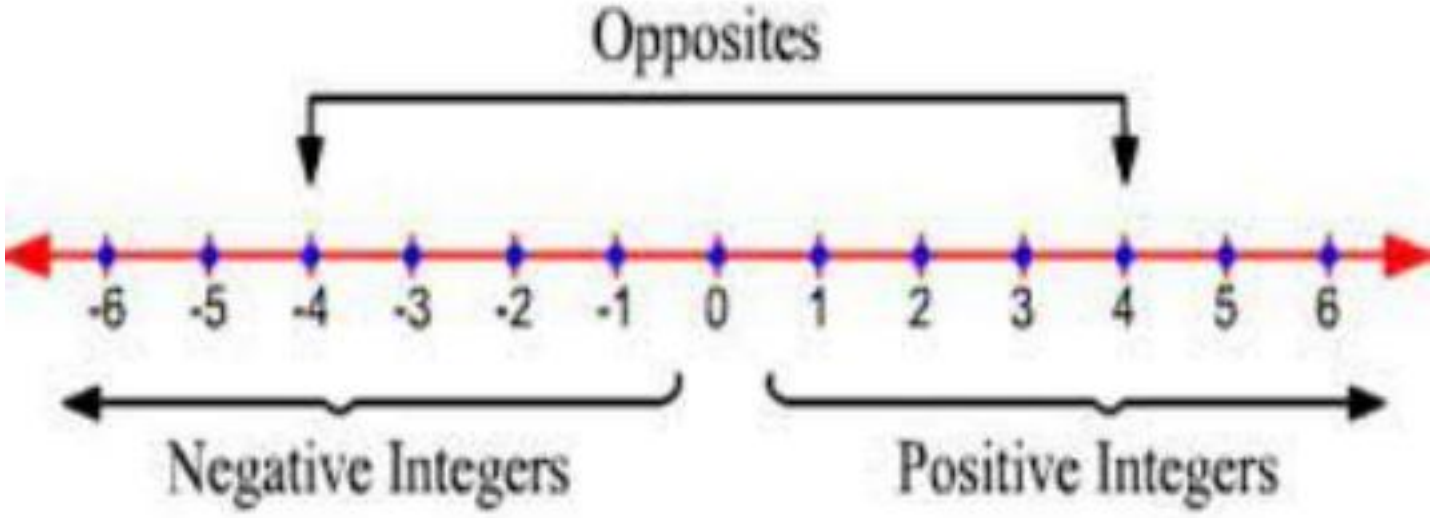
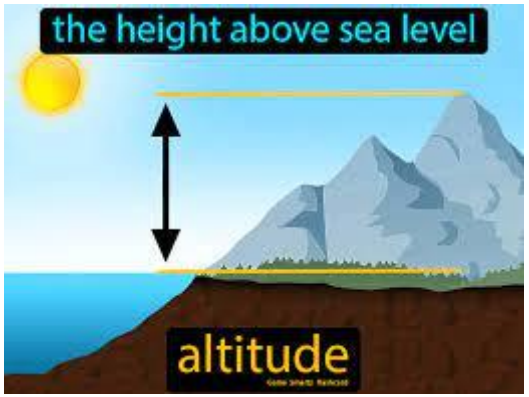
REPRESENTATION OF NEGATIVE NUMBERS ON NUMBER LINE

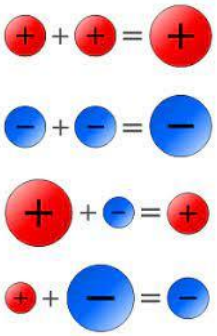


DAILY LIFE USE OF NEGATIVE INTEGERS.

TEMPERATURE



HEIGHT ABOVE THE SEA LEVEL



EXERCISE 14 (A)

5. Write the negative integers of the following

a. - 12 = **+ 12**

b. 6 = **- 6**

c. 0 = **0**

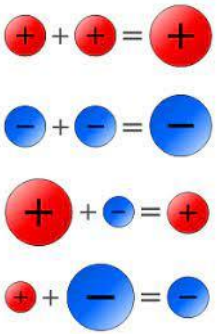
d. -7 = **+ 7**

e. -4 = **+ 4**

f. -10 = **+ 10**

g. 8 = **- 8**

h. 4 = **- 4**



EXERCISE 14 (A)

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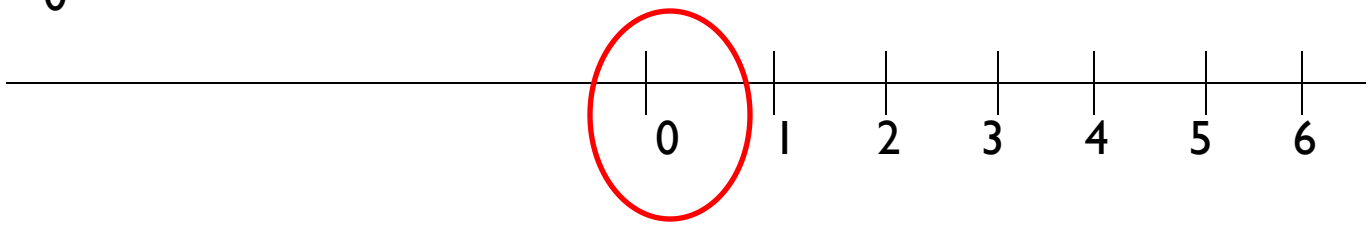
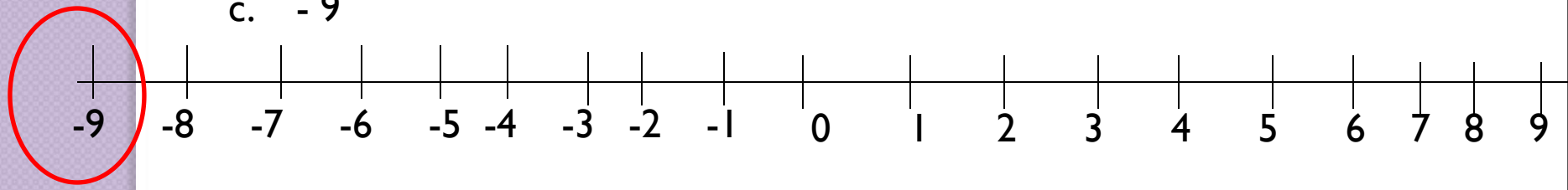
6. Mark the following integers on the number line

a. - 6

b. 0



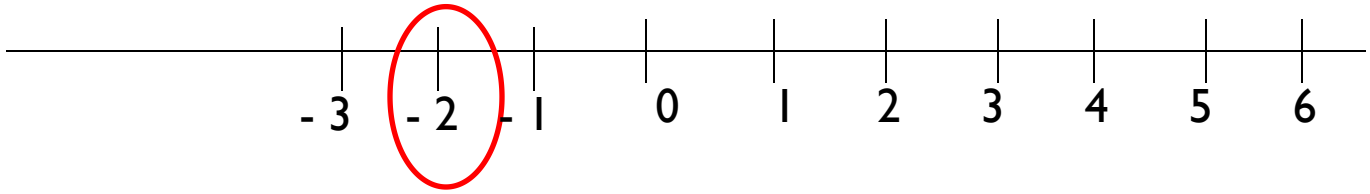
c. - 9



EXERCISE 14 (A)

6. Mark the following integers on the number line

d. – 2



7. How many integers are in between?

a. - 5 and 2 = -4 , -3 ,-2 ,-1 ,0 , 1 **= 6 integers**

b. 4 and 11 **= 6 integers**

EXERCISE 14 (A)

7. How many integers are in between?

c. - 3 and - 10 **= 6 integers**

d. - 5 and +5 **= 9 integers**

8. Write all integers in between

a. - 2 and +7 = **-1 , 0 , 1 , 2, 3 , 4 , 5 , 6**

b. - 4 and +4 = **-3 , - 2 ,-1 , 0 , 1 , 2, 3**

EXERCISE 14 (A)

8. Write all integers in between

c. 0 and – 5 = **- 4 , - 3 , - 2 , -1 , 0**

d. 2 and 9 = **3, 4, 5, 6, 7, 8**

9. Indicate the following using integers

a. Loss of Rs. 90 = **- 90**

b. Profit of Rs. 48 = **+ 48**

c. 5 km above the ground level = **+ 5**

d. 2 km below water level = **- 2**

EXERCISE 14 (A)

9. Indicate the following using integers

e. 22° above zero = **+ 22**

f. 3° below zero = **- 3**

10. Find the opposite of the following

a. A profit of rs. 700 = **A loss of Rs. 700**

b. - 13 = **+ 13**

c. 27 = **- 27**

d. Going south = **Going North**

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Students are able:

- To recognize negative numbers
- To represent negative numbers on number line.

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THANKING YOU

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