

Class-six

Subject- Math

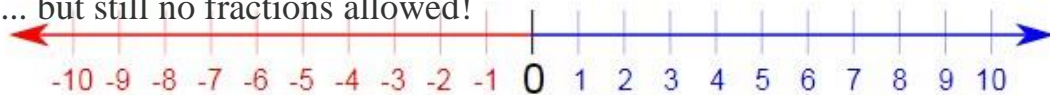
Chapter 3(Integers)

Date 09/08/2020

## Practice Work Sheet

### Basic Concept of integer:

Integers are like whole numbers, but they **also include negative numbers**  
... but still no fractions allowed!



So, integers can be negative  $\{-1, -2, -3, -4, \dots\}$ , positive  $\{1, 2, 3, 4, \dots\}$ , or zero  $\{0\}$

We can put that all together like this:

Integers =  $\{\dots, -4, -3, -2, -1, 0, 1, 2, 3, 4, \dots\}$

Examples:  $-16, -3, 0, 1$  and  $198$  are all integers.

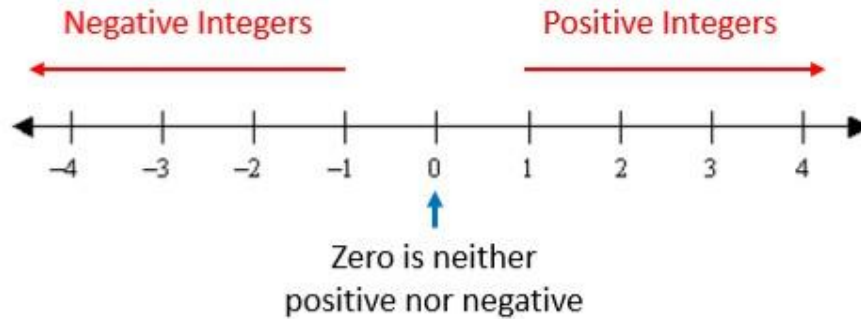
(But numbers like  $\frac{1}{2}, 1.1$  and  $3.5$  are **not** integers)

### Types of Integer:

- **Negative Integers** =  $\{\dots, -4, -3, -2,\}$
- **Positive Integers** =  $\{1, 2, 3, 4, \dots\}$
- **Non-Negative Integers** =  $\{0, 1, 2, 3, 4, \dots\}$  (includes zero, see?)

### Representation of Integers on Number Line:

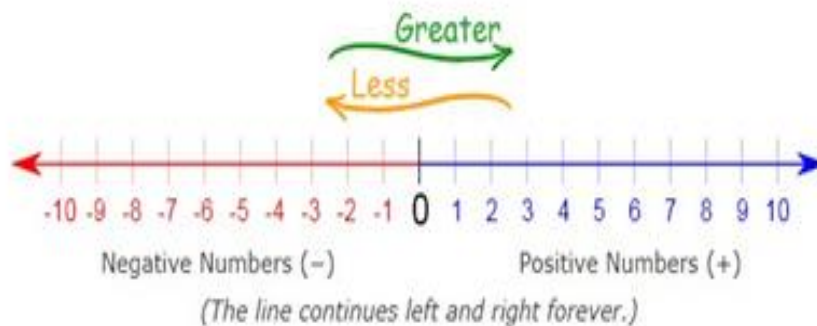
To represent the integers on a number line, first, we have to draw a line and mark a point zero on it.



Then mark all the **positive integers on the right side** with the same distance as 1, 2, 3... and the entire **negative numbers on the left side** as -1, -2, -3

### Number line:

Writing numbers down on a Number Line makes it easy to tell which numbers are greater or lesser



A number on the **left is less** than a number on the right.

#### Examples:

- 5 is less than 8
- -1 is less than 1
- -8 is less than -5

## Practice Work at Home

1. Write opposites of the following:

- (a) Increase in weight
- (b) 30 km north
- (c) 80 m east
- (d) Loss of Tk. 700
- (e) 100 m above sea level

2. Represent the following numbers as integers with appropriate signs.

- a) . An aero plane is flying at a height two thousand meter above the ground.
- b.A submarine is moving at a depth, eight hundred meters below the sea level.
- c) A deposit of two hundred taka in the bank.
- d). Withdrawal of seven hundred Taka form the bank.

3. Write all the integers between the given pairs (write them in the increasing order.)

- a) 0 and  $-7$
- b)  $-4$  and  $4$
- c)  $-8$  and  $-15$
- d)  $-30$  and  $-23$

4. (a) Write four negative integers greater than  $-20$

b) Write four integers less than  $-10$ .

5. For the following statements, write True (T) or False (F). If the statement is false, correct the statement.

- a)  $-8$  is to the right of  $-10$  on a number line.
- b)  $-100$  is to the right of  $-50$  on a number line.
- c) Smallest negative integer is  $-1$ .
- d)  $-26$  is greater than  $-25$ .

6. In each of the following pairs, which number is to the right of the other on the number line?

a) 2, 9

b)  $-3$ ,  $-8$

c) 0,  $-1$

d)  $-11$ , 10

e)  $-6$ , 6

f) 1,  $-100$



