

**RD SHARMA**

**Solutions**

**Class 6 Maths**

**Chapter 5**

**Ex 5.1**

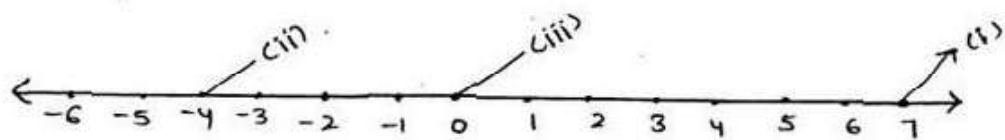
### Exercise-5.1.

1. (i) decrease of population.
- (ii) with drawing money from a bank
- (iii) spending money.
- (iv) Going south
- (v) Loosing a weight of 4 kg.
- (vi) A gain of Rs 1000.
- (vii) -25.
- (viii) 15.

### Solution-02:-

- (i)  $25^\circ$  above zero is  $\rightarrow +25^\circ$ .
- (ii)  $5^\circ$  below zero  $\rightarrow -5^\circ$ .
- (iii) A profit of 800  $\rightarrow +800$
- (iv) A deposit of 2500  $\rightarrow +2500$ .
- (v) 3 km above sea level  $\rightarrow +3$ .
- (vi) 2 km below sea level  $\rightarrow -2$ .

### Solution-03:-



integers are as shown in the number line

(i) Since '0' is greater than all negative integers,

Therefore  $-4 < 0$ .

-4 is smaller.

(ii) We know that  $-3$  on the number line  $-3$  is to left

of 12. So  $-3 < 12$ .

-3 is smaller.

(iii) 8, 13.

WKT on the number line 8 is to left of 13.

So  $8 < 13$ .

(iv) -15, -27.

W.K.T on the number line -27 is to left of -15.

So  $-27 < -15$ .

Solution - 05 :-

(i) 3, -4.

Si. WKT on the number line 3 is to right of -4.

So  $3 > -4$ .

3 is larger.

(ii) -12, -8.

WKT on the number line -12 is to left of -8.

So  $-12 < -8$

-8 is larger.

(iii) 0, 7.

Since '0' is less than all positive integers,

Therefore  $7 > 0$

7 is larger

(iv) 12, -18.

wkt on the number line -18 is to left of 12.

so  $12 > -18$

12 is larger.

Solution-06:-

(i) integers between -7 and 3 are  
-6, -5, -4, -3, -2, -1, 0, 1, 2

(ii) integers between -2 and 2 are.  
-1, 0, 1.

(iii) integers between -4 and 0 are.  
-3, -2, -1.

(iv) integers between 0 and 3 are  
1, 2.

Solution-07.

(i) integers between  $-4$  and  $3$  are  $-3, -2, -1, 0, 1, 2$ .

$\therefore$  No. of integers between  $-4$  and  $3$  are  $6$ .

(ii) Integers between  $5$  and  $12$  are  $6, 7, 8, 9, 10, 11$ .

$\therefore$  No. of integers between  $5$  and  $12$  are  $6$ .

(iii) integers between  $-9$  and  $-2$  are  $-8, -7, -6, -5, -4, -3$ .

$\therefore$  No. of integers between  $-9$  and  $-2$  are  $6$ .

(iv) integers between  $0$  and  $5$  are  $1, 2, 3, 4$ .

$\therefore$  No. of integers between  $0$  and  $5$ .

Solution-08:-

(i)  $2 < 5$

(ii)  $0 < 3$

(iii)  $0 > -7$

(iv)  $-18 < 15$

(v)  $-235 < -532$

(vi)  $-20 < 20$

Solution-09:

(i)  $-12, -9, -8, 0, 1, 5, 15$ .

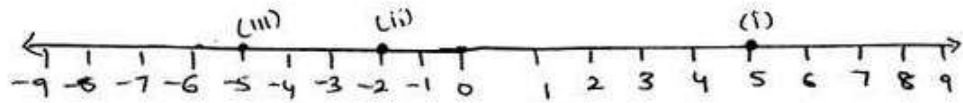
(ii)  $-320, -106, -7, 107, 185$ .

Solution-10

(i)  $8, 7, 6, 0, 2, -5, -9, -15$ .

(ii)  $124, -78, -89, -154, -205$

11)



(i) 2 more than 3  $\rightarrow$  5

(ii) 5 less than 3  $\rightarrow$  -2

(iii) 4 more than -9  $\rightarrow$  -5.

Solution-12:-

Absolute value of an integer is the numerical value of an integer is the numerical value of the integer regardless of its sign.

(i) 14

(ii) 25

(iii) 0

(iv) 125

(v) 248

(vi)  $a-7$

(vii)  $-(a-7)$

(viii)  $a+4$

(ix)  $-(a+4)$

(x) 3

(xi) 5

(xii) 7

Solution-13

(i) -11, -12, -13, -14.

(ii) -11, -10, -9, -8, -7, -6.

Solution-14:-

(i) False

(ii) True

(iii) False

(iv) True

(v) False

(vi) True.

(vii) True

(viii) False