

## Exercise-6

### Evaluation Questions

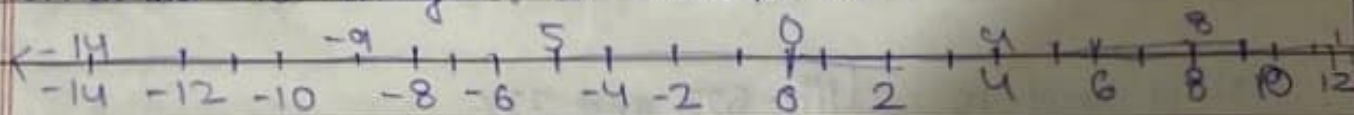
1- Fill in the blanks:

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

2- Use a number line to write the following integers in ascending/increasing order:

- i-  $-5, 8, 0, -9, 4, -14$  and  $12$

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

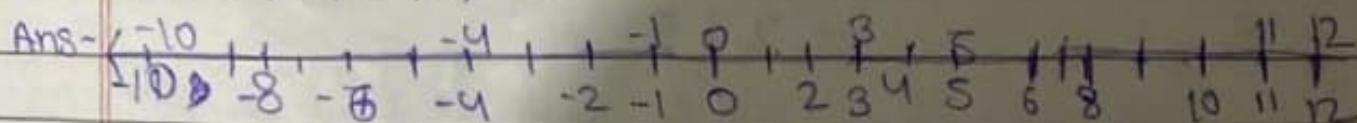


Hence, the given integers in the ascending order are:  
 $-14 < -9 < -5 < 0 < 4 < 8 < 12$

- ii-  $-6, 7, 0, -9, 5$  and  $9$

3- Use a number line to write the following integers in descending/decreasing order:

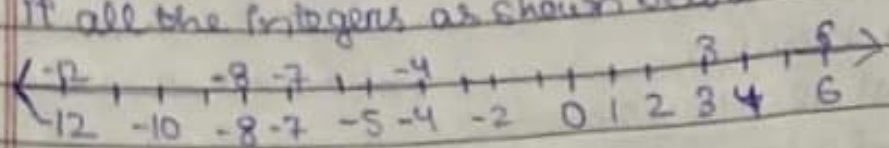
- Ans-i-  $10, 0, 8, -4, 12, 11, -1$  and  $5$



Hence, the given integers in the descending order are:  
 $12 > 11 > 8 > 5 > 0 > 1 > -4 > -10$

11- -4, 3, -8, -12, -7 and 6

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



6 > 3 > -4 > -7 > -8 > -12

6 > 3 > -4 > -7 > -8 > -12

4- Add:

(i) 13 and 15

$$\begin{array}{r} \text{Ans: } 13 \\ + 15 \\ \hline 28 \end{array}$$

5 Add:

(i) 259 and 214

$$\begin{array}{r} 259 \\ + 214 \\ \hline 473 \end{array}$$

(v) -622 and -254

$$\begin{array}{r} -622 \\ + 254 \\ \hline -876 \end{array}$$

(ii) -13 and 15

$$\begin{array}{r} + 15 \\ - 13 \\ \hline 2 \end{array}$$

(ii) -528 and -243

$$\begin{array}{r} (-) 528 \\ + (-) 243 \\ \hline -771 \end{array}$$

(vi) 257 and -254

$$\begin{array}{r} + 257 \\ + (-) 254 \\ \hline 003 = 3 \end{array}$$

(iii) 13 and -15

$$\begin{array}{r} (-) 15 \\ + 13 \\ \hline -2 \end{array}$$

(iii) -623 and 326

$$\begin{array}{r} (-) 623 \\ + 326 \\ \hline -297 \end{array}$$

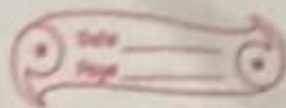
(iv) -13 and -15

$$\begin{array}{r} (-) 13 \\ + (-) 15 \\ \hline -28 \end{array}$$

(iv) 258 and -473

$$\begin{array}{r} (-) 473 \\ + 258 \\ \hline -215 \end{array}$$





6 Subtract

iii) 329 from -124

$$\text{Ans} - 124 - 329 = -329 + (-124) = -453$$

i) 5 from 8

$$\text{Ans} - 8 - 5 = 3$$

iv) -222 from 0

$$\text{Ans} - 0 - (-222) = 222 + 0 = 222$$

ii) -5 from 8

$$\text{Ans} - 8 - (-5) = 8 + 5 = 13$$

iii) 4 from -7

$$\text{Ans} - 7 - 4 = -7 + (-4) = -11$$

iv) -8 from -2

$$\text{Ans} - (-2) - (-8) = -2 + 8 = 6$$

v) -3 from 12

$$\text{Ans} - 12 - (-3) = 12 + 3 = 15$$

vi) -6 from -3

$$\text{Ans} - (-3) - (-6) = -3 + 6 = 9$$

7 Subtract

i) -123 from 453

$$\text{Ans} - 453 - (-123) = 453 + 123 = 576$$

ii) -78 from -12

$$\text{Ans} - (-12) - (-78) = -12 + 78 = 66$$