

Negative Numbers and Integers

Exercise 5.1

Negative Numbers and Integers – Exercise – 5.1 – Q.1

Ans.

- (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.

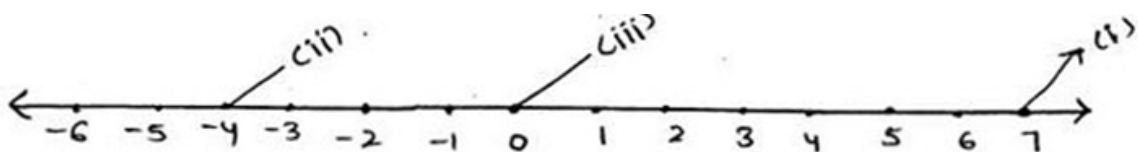
Negative Numbers and Integers – Exercise – 5.1 – Q.2

Ans.

- (i) 25° above zero is $\rightarrow + 25^{\circ}$.
- (ii) 5° 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 $\rightarrow - 2$.

Negative Numbers and Integers – Exercise – 5.1 – Q.3

Ans.



Integers are as shown in the number line.

Negative Numbers and Integers – Exercise – 5.1 – Q.4

Ans.

(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 · 50 - < 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 $-27 < -15$.

Negative Numbers and Integers – Exercise – 5.1 – Q.5

Ans.

(i) 3, -4.

Sr. 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.

Negative Numbers and Integers – Exercise – 5.1 – Q.6

Ans.

(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.

Negative Numbers and Integers – Exercise – 5.1 – Q.7

Ans.

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

∴ No of integers between -4 and 3 are 6.

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

∴ No of integers between 5 and 12 are 6.

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

∴ No of integers between -9 and -2 are 6.

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

∴ No of integers between 0 and 5.

Negative Numbers and Integers – Exercise – 5.1 – Q.8

Ans.

(i) $2 < 5$

(ii) $0 < 3$

(iii) $0 > -7$

(iv) $-18 < 15$

(v) $-235 > -532$

(vi) $-20 < 20$

Negative Numbers and Integers – Exercise – 5.1 – Q.9

Ans.

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

(ii) $-320, -106, -7, 107, 186.$

Negative Numbers and Integers – Exercise – 5.1 – Q.10

Ans.

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

(ii) $124, -74, -89, -154, -205.$

