

Class VI Mathematics
Chapter-6 Integers

Exercise 6.1

1. Write opposite of the following:

(a) Increase in weight

Ans: **Decrease in weight**

(b) 30 km north

Ans: **30 km south**

(c) 326 BC

Ans: **326 AD**

(d) Loss of ₹ 700

Ans: **Profit of ₹700**

(e) 100 m above sea level

Ans: **100 m below sea level**

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

(a) An aero plane is flying at a height two thousand meters above the ground.

Ans: **(+) 2000 meters**

(b) A submarine is moving at a depth eight thousand meters below the sea level.

Ans: **(-) 8000 meters**

(c) A deposit of rupees two hundred.

Ans: **(+) 200 Rupees**

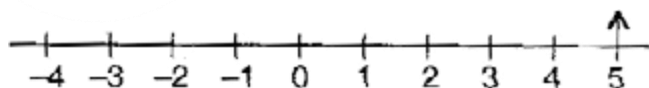
(d) Withdrawal of rupees seven hundred.

Ans: **(-) 700 Rupees**

3. Represent the following numbers on number line:

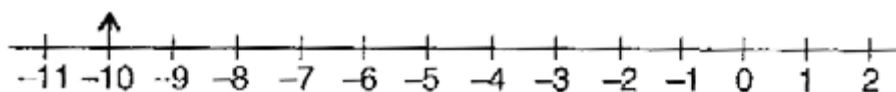
(a) +5

Ans:



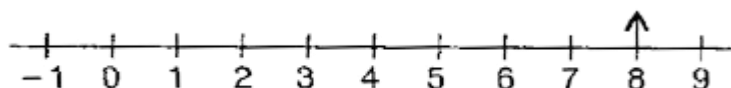
(b) -10

Ans:



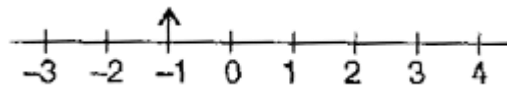
(c) +8

Ans:



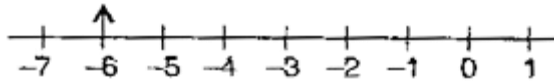
(d) -1

Ans:



(e) -6

Ans:



4. Adjacent figure is a vertical number line, representing integers. Observe it and locate the following points:

(a) If point D is +8 then which point is -8?

Ans: **F**

(b) Is point G a negative integer or a positive integer?

Ans: **Negative**

(c) Write integers for points B and E.

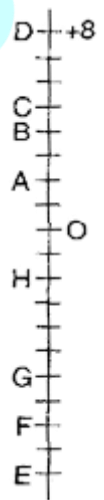
Ans: **B = (+)4; E = (-)10**

(d) Which point marked on this number line has the least value?

Ans: **E**

(e) Arrange all the points in decreasing order of values.

Ans: **D, C, B, A, O, H, G, F, E**

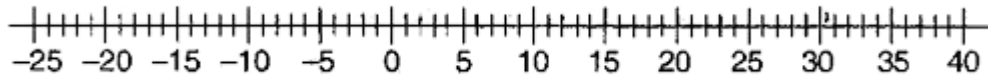


5. Following is the list of temperatures of five places in India, on a particular day of the year.

(a) Write the temperature of these places in the form of integers in the blank column.

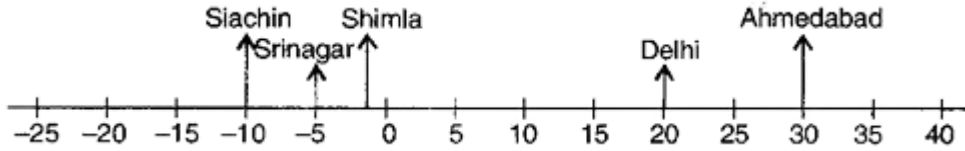
Place	Temperature	
Siachin	10°C below 0°C	(-) 10°C
Shimla	2°C below 0°C	(-) 2°C
Ahmedabad	30°C above 0°C	(+) 30°C
Delhi	20°C above 0°C	(+) 20°C
Srinagar	5°C below 0°C	(-) 5°C

(b) Following is the number line representing the temperature in degree Celsius.



Plot the name of the city against its temperature.

Ans:



(c) Which is the coolest place?

Ans: **Siachin**

(d) Write the names of the place where temperature are above 10°C

Ans: **Ahmedabad, Delhi**

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

(a) 2, 9

Ans: **9 is right to 2**

(b) -3, -8

Ans: **-3 is right to -8**

(c) 0, -1

Ans: **0 is right to -1**

(d) -11, 10

Ans: **10 is right to -11**

(e) -6, 6

Ans: **6 is right to -6**

(f) 1, -100

Ans: **1 is right to -100**

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

(a) 0 and -7

Ans: $-6, -5, -4, -3, -2, -1$

(b) -4 and 4

Ans: $-3, -2, -1, 0, 1, 2, 3$

(c) -8 and -15

Ans: $-14, -13, -12, -11, -10, -9$

(d) -30 and -23

Ans: $-29, -28, -27, -26, -25, -24$

8.

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

Ans: $-19, -18, -17, -16$

(b) Write four negative integers less than -10 .

Ans: $-11, -12, -13, -14$

9. 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.

Ans: True

(b) -100 is the right of -50 on a number line.

Ans: False

(c) Smallest negative integer is -1 .

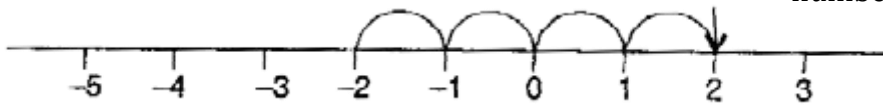
Ans: False

(d) -26 is larger than -25 .

Ans: False

10. Draw a number line and answer the following:

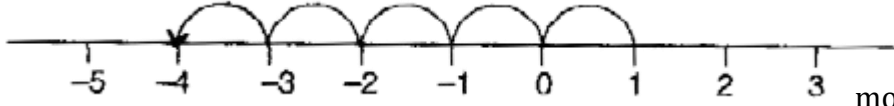
(a) Draw a number line if we move 4 right of -2.



number line will we reach numbers to the

Ans:

(b) Which number will we reach if we move 5 numbers to the left of 1.



number will we move 5 numbers to the

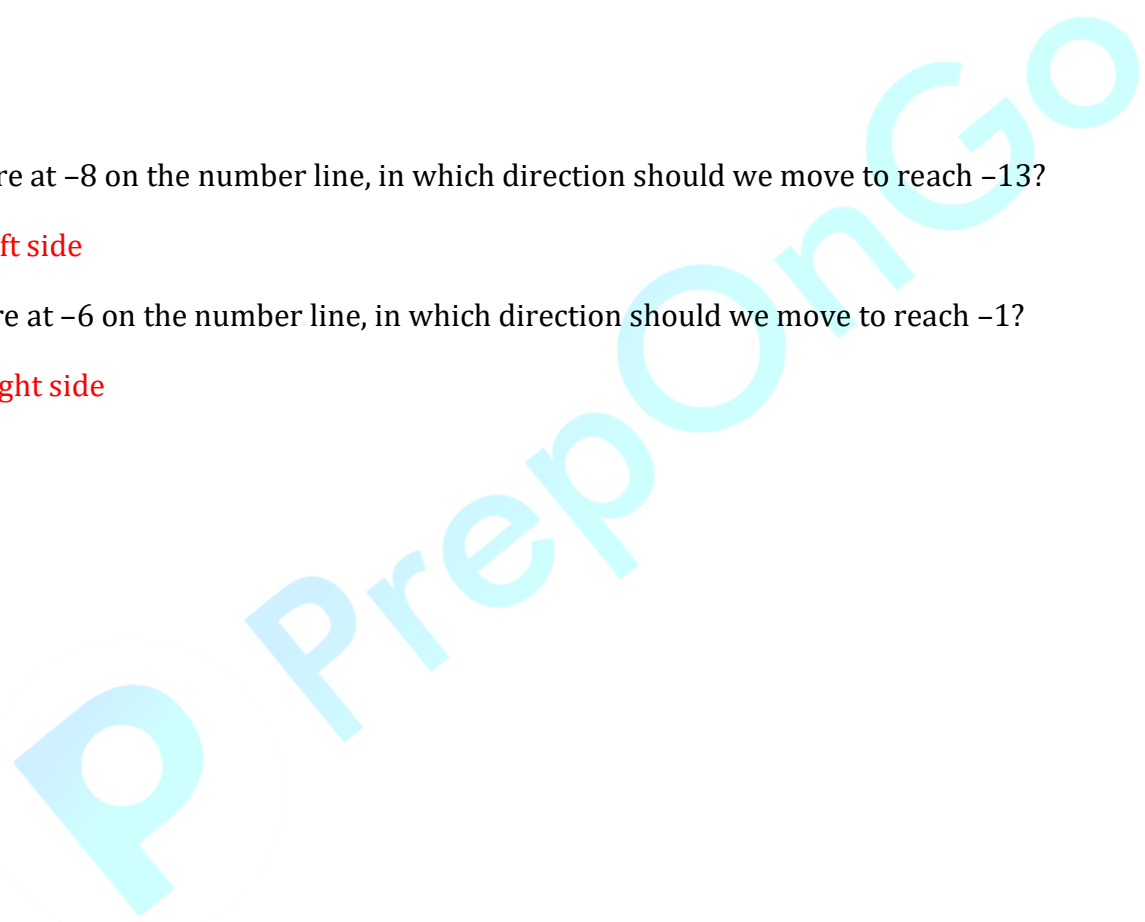
Ans:

(c) If we are at -8 on the number line, in which direction should we move to reach -13?

Ans: On left side

(d) If we are at -6 on the number line, in which direction should we move to reach -1?

Ans: On right side



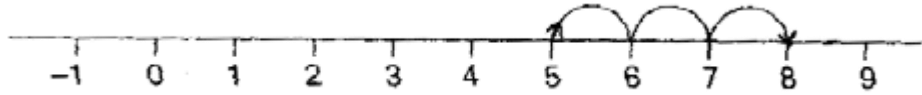
Class VI Mathematics
Chapter-6 Integers

Exercise 6.2

1. Using the number line write the integer which is:

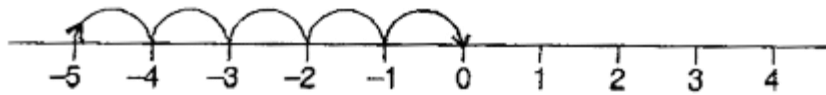
(a) 3 more than 5

Ans: 8



(b) 5 more than -5

Ans: 0



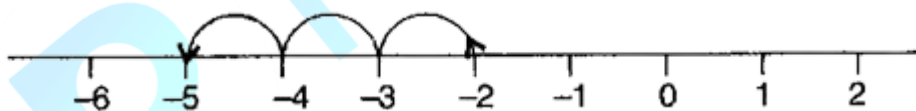
(c) 6 less than 2

Ans: -4



(d) 3 less than -2

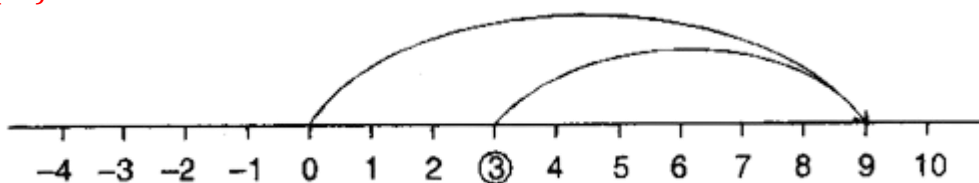
Ans: -5



2. Use number line and add the following integers:

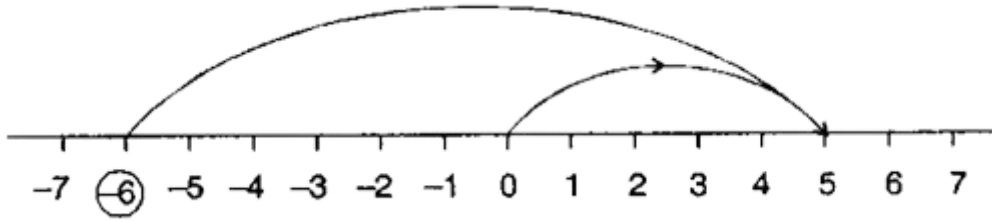
(a) $9 + (-6)$

Ans: $9 + (-6) = 3$



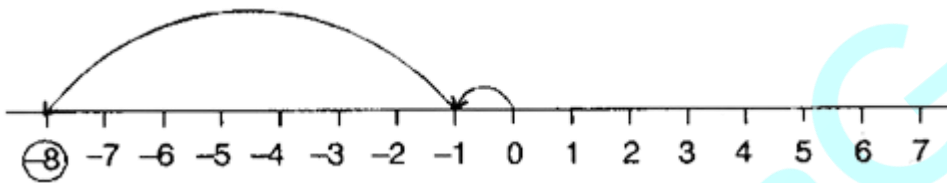
(b) $5 + (-11)$

Ans: $5 + (-11) = -6$



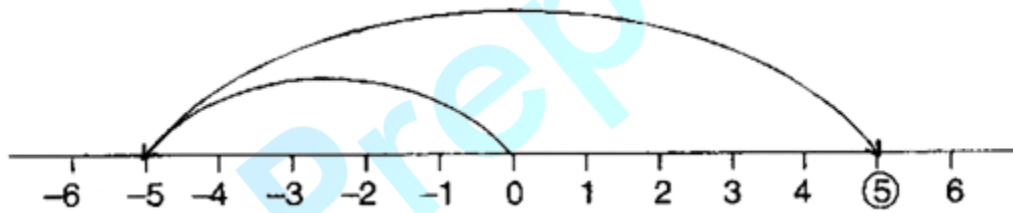
(c) $(-1) + (-7)$

Ans: $(-1) + (-7) = -8$



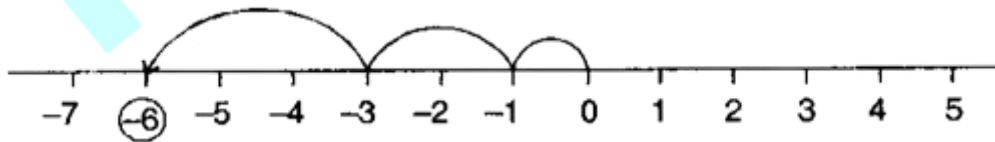
(d) $(-5) + 10$

Ans: $(-5) + 10 = 5$



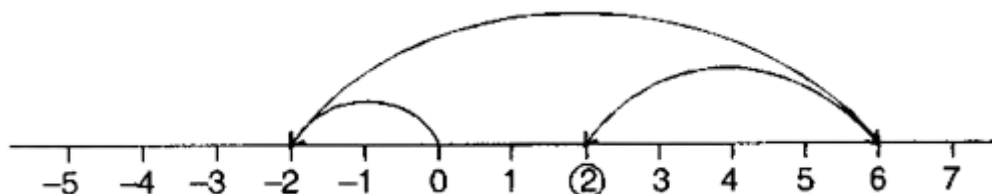
(e) $(-1) + (-2) + (-3)$

Ans: $(-1) + (-2) + (-3) = -6$



(f) $(-2) + 8 + (-4)$

Ans: $(-2) + 8 + (-4) = 2$



3. Add without using number line:

(a) $11 + (-7)$

Ans: $11 + (-7) = 11 - 7 = 4$

(b) $(-13) + (+18)$

Ans: $(-13) + 18 = 5$

(c) $(-10) + (+19)$

Ans: $(-10) + (+19) = -10 + 19 = 9$

(d) $(-250) + (+150)$

Ans: $(-250) + (+150) = -250 + 150 = -100$

(e) $(-380) + (-270)$

Ans: $(-380) + (-270) = -380 - 270 = -650$

(f) $(-217) + (-100)$

Ans: $(-217) + (-100) = -217 - 100 = -317$

4. Find the sum of:

(a) 137 and -354

Ans: $137 + (-354) = 137 - 354 = -217$

(b) -52 and 52

Ans: $(-52) + 52 = 0$

(c) -213, 39 and 192

Ans: $(-213) + 39 + 192 = -213 + 231 = 18$

(d) -50, -200 and 300

Ans: $(-50) + (-200) + 300 = -50 - 200 + 300 = -250 + 300 = 50$

5. Find the value of:

(a) $(-7) + (-9) + 4 + 16$

Ans: $(-7) + (-9) + 4 + 16$
 $= -7 - 9 + 4 + 16$
 $= -16 + 20$
 $= 4$

(b) $37 + (-2) + (-65) + (-8)$

Ans: $37 + (-2) + (-65) + (-8)$
 $= 37 - 2 - 65 - 8$
 $= 37 - 75$
 $= -38$

PrepOnGo

Class VI Mathematics
Chapter-6 Integers

Exercise 6.3

1. Subtract:

(a) $35 - (20)$

Ans: $35 - 20 = 15$

(b) $72 - (90)$

Ans: $72 - 90 = -18$

(c) $(-15) - (-18)$

Ans: $(-15) - (-18) = -15 + 18 = 3$

(d) $(-20) - (13)$

Ans: $-20 - (13) = -20 - 13 = -33$

(e) $23 - (-12)$

Ans: $23 - (-12) = 23 + 12 = 35$

(f) $(-32) - (-40)$

Ans: $(-32) - (-40) = -32 + 40 = 8$

2. Fill in the blanks with >, < or = sign:

(a) $(-3) + (-6)$ < $(-3) - (-6)$

(b) $(-21) - (-1)$ > $(-31) + (-11)$

(c) $45 - (-11)$ > $57 + (-4)$

(d) $(-25) - (-42)$ > $(-42) - (-25)$

3. Fill in the blanks:

(a) $(-8) + \underline{8} = 0$

(b) $13 + \underline{(-13)} = 0$

(c) $12 + (-12) = \underline{0}$

(d) $(-4) + \underline{(-8)} = -12$

(e) $\underline{5} - 15 = -10$

4. Find:

(a) $(-7) - 8 - (-25)$

Ans: $(-7) - 8 - (-25)$
 $= -7 - 8 + 25$
 $= -15 + 25$
 $= 10$

(b) $(-13) + 32 - 8 - 1$

Ans: $(-13) + 32 - 8 - 1$
 $= -13 + 32 - 8 - 1$
 $= 32 - 22$
 $= 10$

(c) $(-7) + (-8) + (-90)$

Ans: $(-7) + (-8) + (-90)$
 $= -7 - 8 - 90$
 $= -105$

(d) $50 - (-40) - (-2)$

Ans: $50 - (-40) - (-2)$
 $= 50 + 40 + 2$
 $= 92$