Class -VI Mathematics (Ex. 6.1) Questions

1.	Write opposite of the following:	
	(a) Increase in weight	(b) 30 km north
	(c) 326 BC	(d) Loss of ₹ 700
	(e) 100 m above sea level	

- 2. Represent the following numbers as integers with appropriate signs.
 - (a) An aeroplane is flying at a height two thousand meters above the ground.
 - (b) A submarine is moving at a depth eight thousand meters below the sea level.
 - (c) A deposit of rupees two hundred.

(a) +5

- (d) Withdrawal of rupees seven hundred.
- $\label{eq:continuity} \textbf{3.} \quad \text{Represent the following numbers on number line:}$
- 4. Adjacent figure is a vertical number line, representing integers. Observe it and locate the following points:

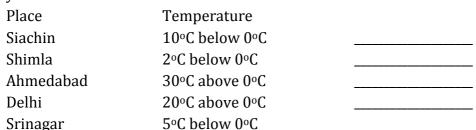
(c) + 8

(d) -1

- (a) If point D is +8 then which point is -8?
- (b) Is point G a negative integer or a positive integer?

(b) -10

- (c) Write integers for points B and E.
- (d) Which point marked on this number line has the least value?
- (e) Arrange all the points in decreasing order of values.
- 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.
- (b) Following is the number line representing the temperature in degree Celsius.



Plot the name of the city against its temperature.



(e) -6

(c) Which is the coolest pl				
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- (d) Write the names of the place where temperature are above 10° C.
- 6. In each of the following pairs, which number is to the right of the other on the number line?

(b)
$$-3$$
, -8

(c)
$$0, -1$$

$$(e) -6, 6$$

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

(a)
$$0$$
 and -7

(c)
$$-8$$
 and -15

(d)
$$-30$$
 and -23

- 8. (a) Write four negative integers greater than –20.
 - (b) Write four negative integers less than -10.
- 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.
 - (b) -100 is the right of -50 on a number line.
 - (c) Smallest negative integer is -1.
 - (d) -26 is larger than -25.
- 10. Draw a number line and answer the following:
 - (a) Draw a number line will we reach if we move 4 numbers to the right of -2.
 - (b) Which number will we reach if we move 5 numbers to the left of 1.
 - (c) If we are at -8 on the number line, in which direction should we move to reach -13?
 - (d) If we are at -6 on the number line, in which direction should we move to reach -1?

Class -VI Mathematics (Ex. 6.1) Answers

- 1. (a) Decrease in weight
 - (c) 326 AD
 - (e) 100 m below sea level
- 2. (a) (+) 200 meters
 - (c) (+) 200 Rupees

- (b) 30 km south
- (d) Profit of ₹700
- (b) (-) 800 meters
- (d) (-) 700 Rupees
- - (c) -1 0 1 2 3 4 5 6 7 8 9
 - (d) -3 -2 -1 0 1 2 3 4
 - (e) -7 -6 -5 -4 -3 -2 -1 0 1
- 4. (a) F
 - (c) B = (+) 4; E = (-) 10
 - (e) D, C, B, A, O, H, G, F, E

- (b) Negative
- (d) E

5. Place

Temperature

- (a) Siachin
 - Shimla
 - Sillillia

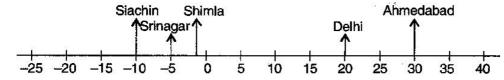
Ahmedabad

Delhi

Srinagar

- $(-) 10^{\circ} C$
- $(-) 2 \circ C$
- (+) 30 ° C
- (+) 20 °C
- $(-) 5 \circ C$

(b) Number line



(c) Siachin

- (d) Ahemadabad, Delhi
- 6. (a) 9 is right to 2
 - (c) 0 is right to -1
 - (e) 6 is right to -6
- 7. (a) -6, -5, -4, -3, -2, -1
 - (c) -14, -13, -12, -11, -10, -9
- 8. (a) -19, -18, -17, -16
- (b) False
- (c) False

(b) -3 is right to -8 (d) 10 is right to -11

(f) 1 is right to -100

(b) -3, -2, -1, 0, 1, 2, 3

(b) -11, -12, -13, -14

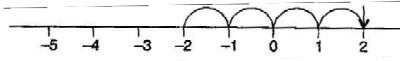
(d) -29, -28, -27, -26, -25, -24

(d) False

10. (a)

9.

(a) True



- (b) —
- (c) On left side
- (d) On right side

Class -VI Mathematics (Ex. 6.2) Questions

- 1. Using the number line write the integer which is:
 - (a) 3 more than 5

(b) 5 more than -5

(c) 6 less than 2

(d) 3 less than -2

2. Use number line and add the following integers:

(a)
$$9 + (-6)$$

(b) 5 + (-11)

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

$$(d)(-5)+10$$

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

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

3. Add without using number line:

(a)
$$11 + (-7)$$

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

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

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

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

- 4. Find the sum of:
 - (a) 137 and -354
 - (c) -213, 39 and 192

- (b) -52 and 52
- (d) -50, -200 and 300

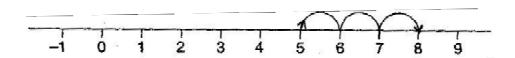
5. Find the value of:

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

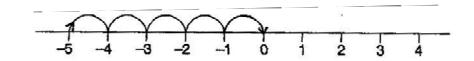
(b)
$$37 + (-2) + (-65) + (-8)$$

Class -VI Mathematics (Ex. 6.2) Answers

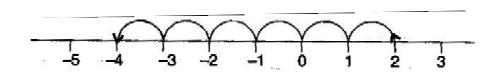




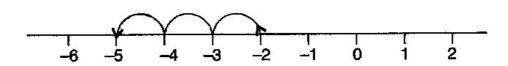
(b) 0



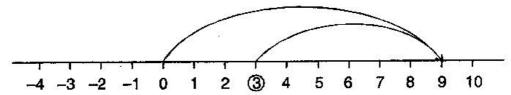
(c) -4



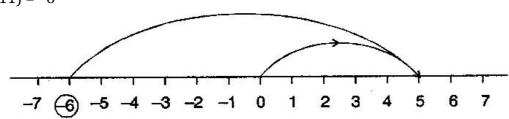
(d) -5



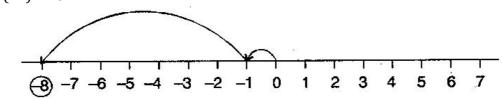
2. (a) 9 + (-6) = 3



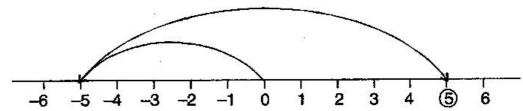
(b) 5 + (-11) = -6



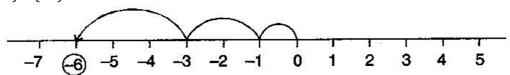
(c) (-1) + (-7) = -8



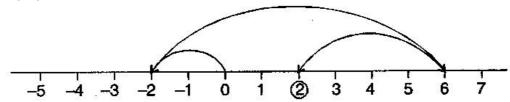
(d) (-5) + 10 = 5



(e) (-1) + (-2) + (-3) = -6



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



3. (a)
$$11 + (-7) = 11 - 7 = 4$$

(c)
$$(-10) + (+19) = -10 + 19 = 9$$

(e)
$$(-380) + (-270) = -380 - 270 = -650$$

(b)
$$(-13) + 18 = 5$$

(d)
$$(-250)$$
 + $(+150)$ = -250 + 150 = -100

(f)
$$(-217) + (-100) = -217 \text{ v } 100 = -317$$

4. (a)
$$137 + (-354) = 137 - 354 = -217$$

(b)
$$(-52) + 52 = 0$$

(c)
$$(-312) + 39 + 192 = -312 + 231 = -81$$

(d)
$$(-50)$$
 + (-200) + 300 = -50 - 200 + 300 = -250 + 300 = 50

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

= $-7 - 9 + 4 + 16$
= $-16 + 20$
= 4

Class -VI Mathematics (Ex. 6.3) Questions

1. Subtract:

(a) 35 - (20)

(b) 72 - (90)

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

(d)(-20)-(13)

(e) 23 - (-12)

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

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

- (a) (-3) + (-6) _____(-3) (-6)
- (b) (-21) (-10) _____ (-31) + (-11)
- (c) 45 (-11) _____ 57 + (-4)
- (d) (-25) (-42) _____ (-42) (-25)

3. Fill in the blanks:

- (a) $(-8) + \underline{\hspace{1cm}} = 0$
- (b) 13 + ____ = 0
- (c) 12 + (-12) =
- (d) $(-4) + \underline{\hspace{1cm}} = -12$
- (e) _____ 15 = -10

4. Find:

- (a) (-7) 8 (-25)
- (b) (-13) + 32 8 1
- (c)(-7)+(-8)+(-90)
- (d) 50 (-40) (-2)

Class -VI Mathematics (Ex. 6.3) Answers

1. (a)
$$35 - 20 = 15$$

(c)
$$(-15)$$
 - (-18) = $-15 + 18 = 3$

(e)
$$23 - (-12) = 23 + 12 = 35$$

(b)
$$72 - 90 = -18$$

(d)
$$-20 - (13) = -20 - 13 = -33$$

$$(f)(-32) - (-40) = -32 + 40 = 8$$

2. (a)
$$(-3) + (-6) \le (-3) - (-6)$$

(c)
$$45 - (-11) \ge 57 + (-4)$$

(d)
$$(-25)$$
 – (-42) \ge (-42) – (-25)

3. (a)
$$(-8) + 8 = 0$$

(b)
$$13 + (-13) = 0$$

(c)
$$12 + (-12) = 0$$

(d)
$$(-4) + (-8) = -12$$

(e)
$$5 - 15 = -10$$

4. (a)
$$(-7)$$
 – 8 – (-25)

$$= -7 - 8 + 25$$

$$= -15 + 25$$

= 10

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

$$= -7 - 8 - 90$$

$$=-105$$

$$= -13 + 32 - 8 - 1$$

$$= 32 - 22$$

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

$$= 50 + 40 + 2$$