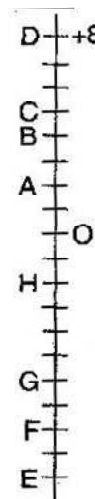
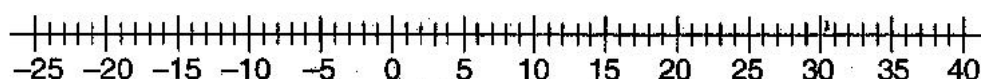

Class –VI Mathematics (Ex. 6.1)
Questions

- 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
- 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.
 (d) Withdrawal of rupees seven hundred.
- Represent the following numbers on number line:
 (a) +5 (b) -10 (c) +8 (d) -1 (e) -6
- 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?
 (b) Is point G a negative integer or a positive integer?
 (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.
- Following is the list of temperatures of five places in India, on a particular day of the year.



Place	Temperature	
Siachin	10°C below 0°C	_____
Shimla	2°C below 0°C	_____
Ahmedabad	30°C above 0°C	_____
Delhi	20°C above 0°C	_____
Srinagar	5°C below 0°C	_____

- Write the temperature of these places in the form of integers in the blank column.
- Following is the number line representing the temperature in degree Celsius.



Plot the name of the city against its temperature.

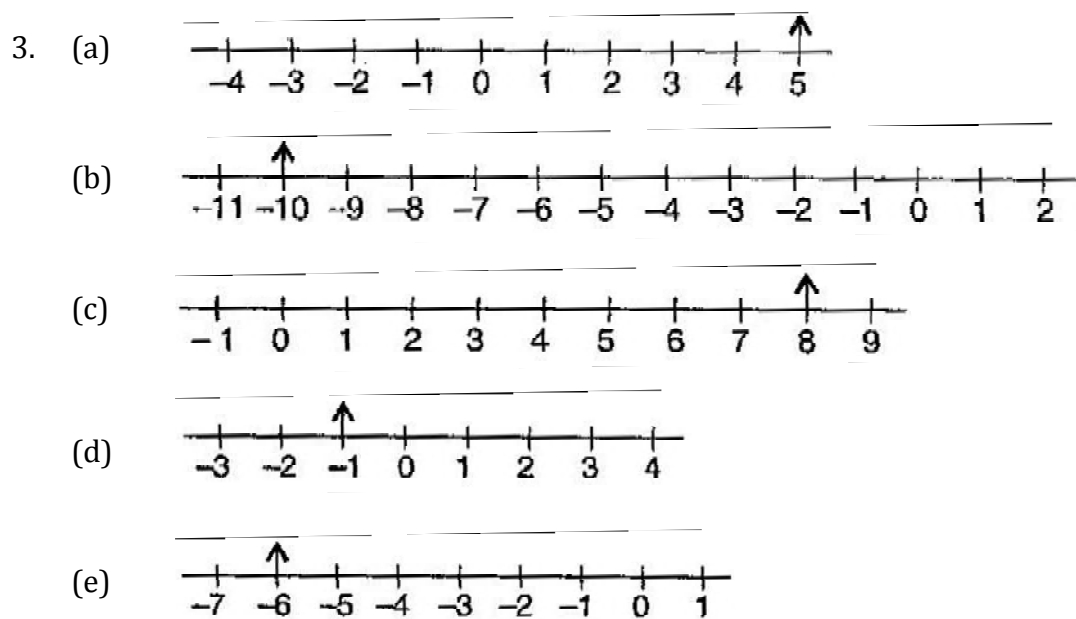
-
- (c) Which is the coolest place?
(d) Write the names of the place where temperature are above 10°C .
6. In each of the following pairs, which number is to the right of the other on the number line?
(a) 2, 9 (b) -3, -8 (c) 0, -1
(d) -11, 10 (e) -6, 6 (f) 1, -100
7. Write all the integers between the given pairs (write them in the increasing order):
(a) 0 and -7 (b) -4 and 4
(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 (b) 30 km south
(c) 326 AD (d) Profit of ₹ 700
(e) 100 m below sea level

2. (a) (+) 200 meters (b) (-) 800 meters
(c) (+) 200 Rupees (d) (-) 700 Rupees

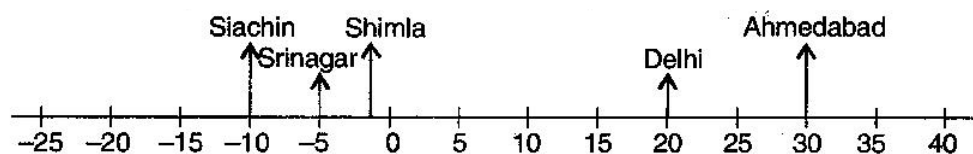


4. (a) F (b) Negative
(c) B = (+) 4; E = (-) 10 (d) E
(e) D, C, B, A, O, H, G, F, E

5. **Place** **Temperature**

- | | |
|-------------|----------|
| (a) Siachin | (-) 10°C |
| Shimla | (-) 2°C |
| Ahmedabad | (+) 30°C |
| Delhi | (+) 20°C |
| Srinagar | (-) 5°C |

(b) Number line

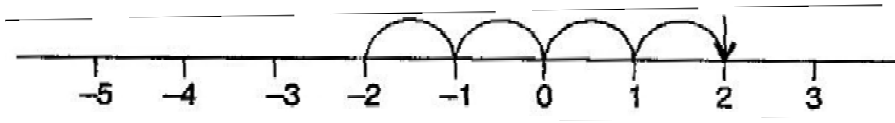


(c) Siachin

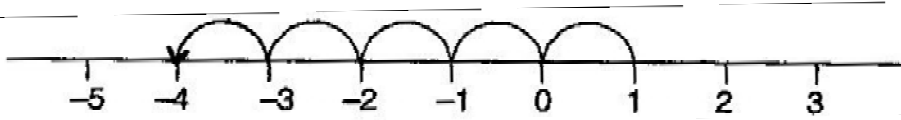
(d) Ahemadabad, Delhi

6. (a) 9 is right to 2 (b) -3 is right to -8
(c) 0 is right to -1 (d) 10 is right to -11
(e) 6 is right to -6 (f) 1 is right to -100
7. (a) -6, -5, -4, -3, -2, -1 (b) -3, -2, -1, 0, 1, 2, 3
(c) -14, -13, -12, -11, -10, -9 (d) -29, -28, -27, -26, -25, -24
8. (a) -19, -18, -17, -16 (b) -11, -12, -13, -14
9. (a) True (b) False (c) False (d) False

10. (a)



(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) $(-10) + (+19)$
(d) $(-250) + (+150)$
(e) $(-380) + (-270)$
(f) $(-217) + (-100)$

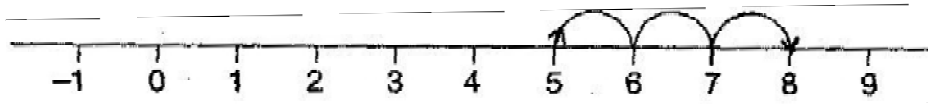
 4. Find the sum of:
(a) 137 and -354
(b) -52 and 52
(c) -213, 39 and 192
(d) -50, -200 and 300

 5. Find the value of:
(a) $(-7) + (-9) + 4 + 16$
(b) $37 + (-2) + (-65) + (-8)$
-

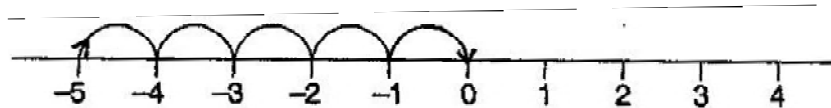
Class -VI Mathematics (Ex. 6.2)

Answers

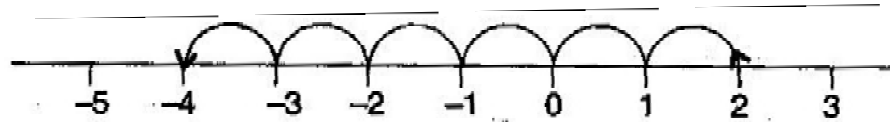
1. (a) 8



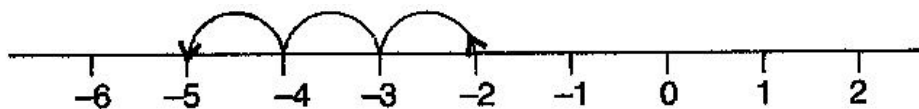
(b) 0



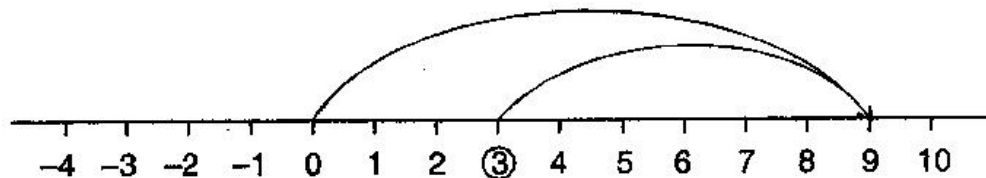
(c) -4



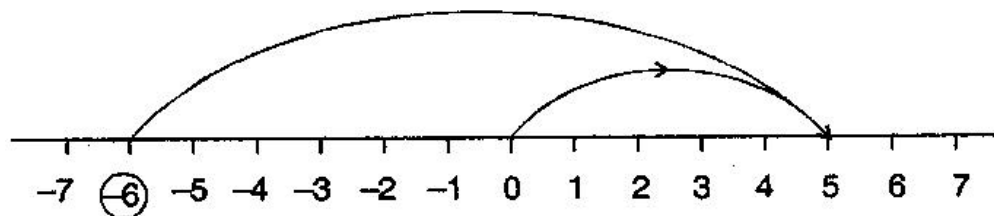
(d) -5



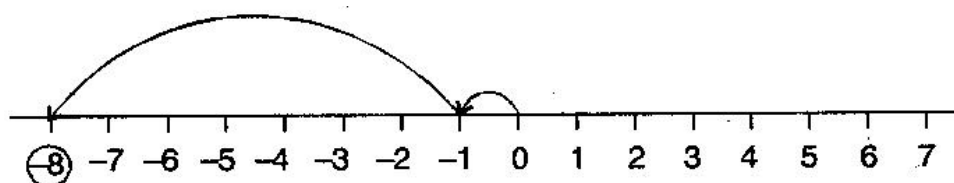
2. (a) $9 + (-6) = 3$



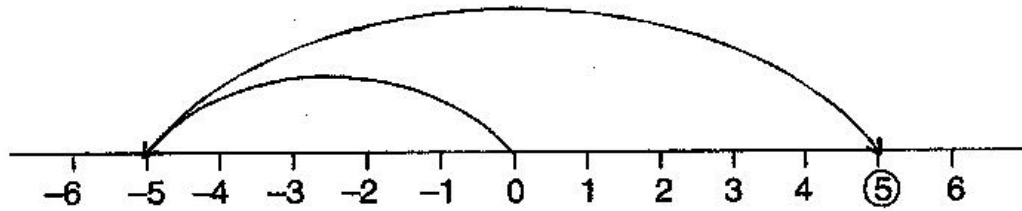
(b) $5 + (-11) = -6$



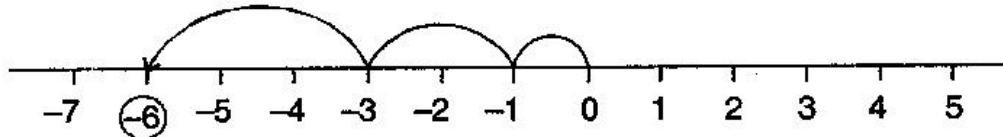
(c) $(-1) + (-7) = -8$



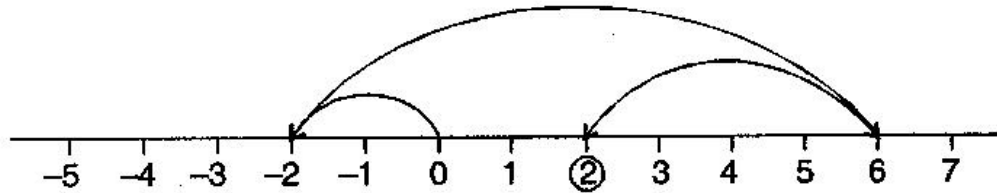
(d) $(-5) + 10 = 5$



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



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



3. (a) $11 + (-7) = 11 - 7 = 4$ (b) $(-13) + 18 = 5$
 (c) $(-10) + (+19) = -10 + 19 = 9$ (d) $(-250) + (+150) = -250 + 150 = -100$
 (e) $(-380) + (-270) = -380 - 270 = -650$ (f) $(-217) + (-100) = -217 \vee 100 = -317$

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

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

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) $(-8) + \underline{\hspace{2cm}} = 0$

(b) $13 + \underline{\hspace{2cm}} = 0$

(c) $12 + (-12) = \underline{\hspace{2cm}}$

(d) $(-4) + \underline{\hspace{2cm}} = -12$

(e) $\underline{\hspace{2cm}} - 15 = -10$

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) $(-3) + (-6) \boxed{<} (-3) - (-6)$
(b) $(-21) - (-10) \boxed{>} (-31) + (-11)$
(c) $45 - (-11) \boxed{>} 57 + (-4)$
(d) $(-25) - (-42) \boxed{>} (-42) - (-25)$
3. (a) $(-8) + \underline{8} = 0$
(b) $13 + \underline{(-13)} = 0$
(c) $12 + \underline{(-12)} = \underline{0}$
(d) $(-4) + \underline{(-8)} = -12$
(e) $\underline{5} - 15 = -10$
4. (a) $(-7) - 8 - (-25)$
 $= -7 - 8 + 25$
 $= -15 + 25$
 $= 10$
- (b) $(-13) + 32 - 8 - 1$
 $= -13 + 32 - 8 - 1$
 $= 32 - 22$
 $= 10$
- (c) $(-7) + (-8) + (-90)$
 $= -7 - 8 - 90$
 $= -105$
- (d) $50 - (-40) - (-2)$
 $= 50 + 40 + 2$
 $= 92$
-