

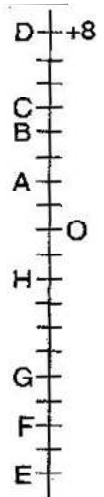
**Class -VI Mathematics (Ex. 6.1)**  
**Questions**

- 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.
  - An aeroplane is flying at a height two thousand meters above the ground.
  - A submarine is moving at a depth eight thousand meters below the sea level.
  - A deposit of rupees two hundred.
  - Withdrawal of rupees seven hundred.
- Represent the following numbers on number line:
 

(a) +5	(b) -10	(c) +8	(d) -1	(e) -6
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4. Adjacent figure is a vertical number line, representing integers. Observe it and locate the following points:



- If point D is +8 then which point is -8?
  - Is point G a negative integer or a positive integer?
  - Write integers for points B and E.
  - Which point marked on this number line has the least value?
  - 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.

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.

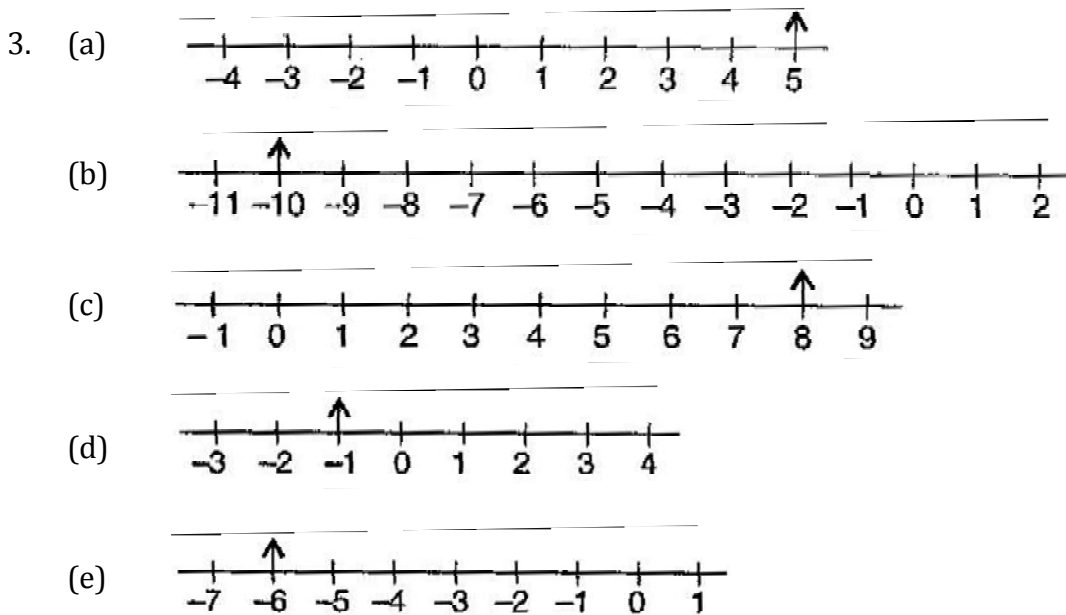
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- (c) Which is the coolest place?
- (d) Write the names of the place where temperature are above 10°C.
6. In each of the following pairs, which number is to the right of the other on the number line?
- |             |            |             |
|-------------|------------|-------------|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

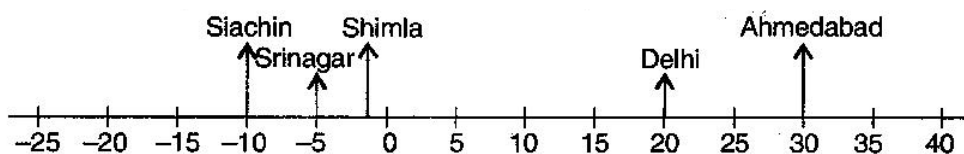
2. (a) (+) 200 meters (b) (-) 800 meters  
 (c) (+) 200 Rupees (d) (-) 700 Rupees



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

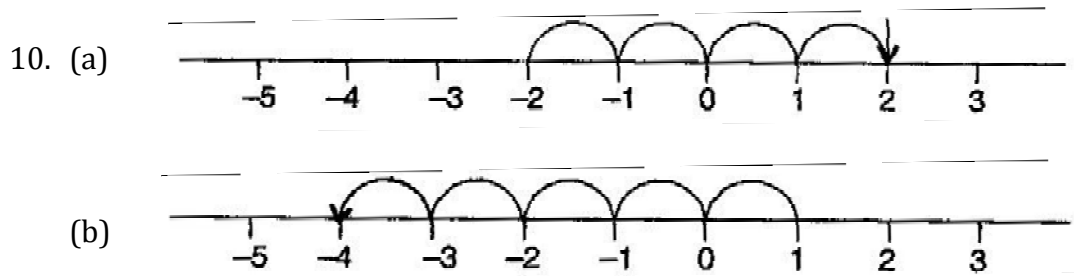
5. Place	Temperature
(a) Siachin	(-) 10°C
Shimla	(-) 2°C
Ahmedabad	(+) 30°C
Delhi	(+) 20°C
Srinagar	(-) 5°C

(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



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

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**Class -VI Mathematics (Ex. 6.2)**  
**Questions**

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

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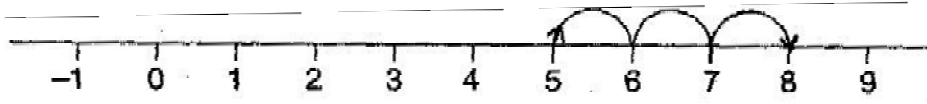
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Class -VI Mathematics (Ex. 6.2)

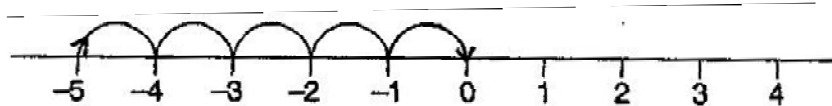
Answers

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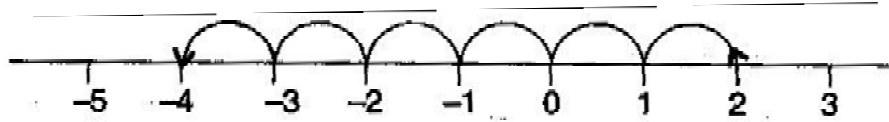
1. (a) 8



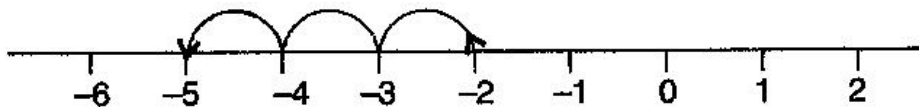
(b) 0



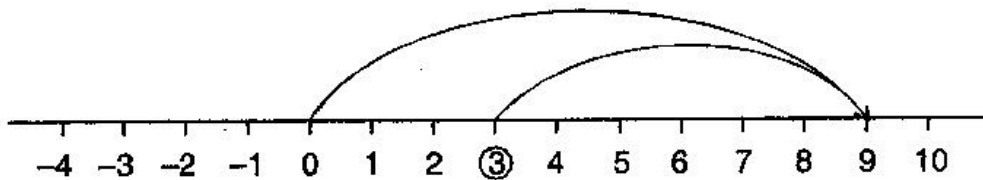
(c) -4



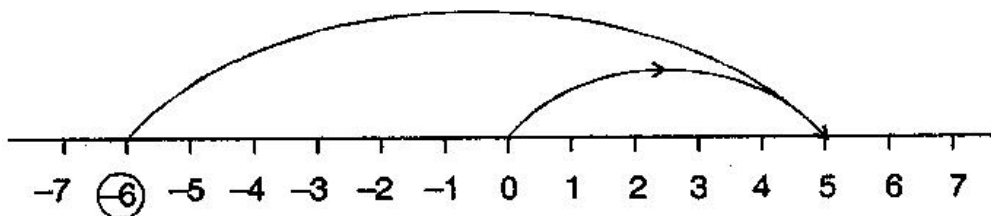
(d) -5



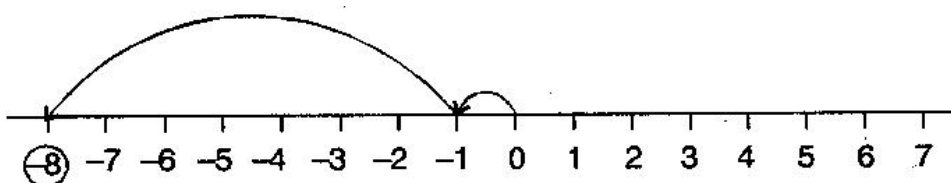
2. (a)  $9 + (-6) = 3$



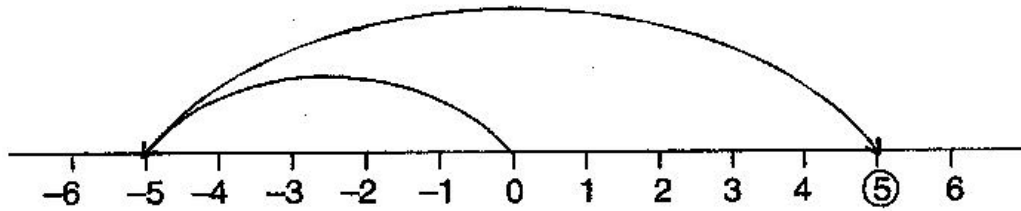
(b)  $5 + (-11) = -6$



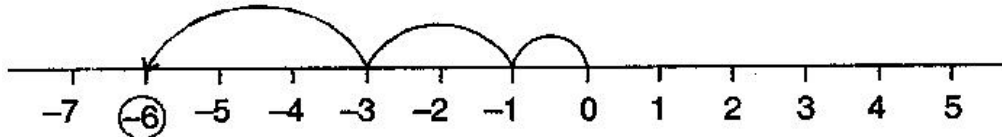
(c)  $(-1) + (-7) = -8$



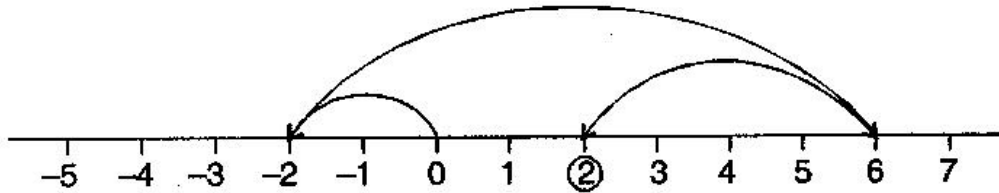
(d)  $(-5) + 10 = 5$



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

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

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**Class -VI Mathematics (Ex. 6.3)**  
**Questions**

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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)  $(-8) +$  \_\_\_\_\_  $= 0$

(b)  $13 +$  \_\_\_\_\_  $= 0$

(c)  $12 + (-12) =$  \_\_\_\_\_

(d)  $(-4) +$  \_\_\_\_\_  $= -12$

(e) \_\_\_\_\_  $- 15 = -10$

4. Find:

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

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

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

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



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**Class -VI Mathematics (Ex. 6.3)**

**Answers**

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1. (a)  $35 - 20 = 15$  (b)  $72 - 90 = -18$   
(c)  $(-15) - (-18) = -15 + 18 = 3$  (d)  $-20 - (13) = -20 - 13 = -33$   
(e)  $23 - (-12) = 23 + 12 = 35$  (f)  $(-32) - (-40) = -32 + 40 = 8$
2. (a)  $(-3) + (-6) \boxed{<} (-3) - (-6)$   
(b)  $(-21) - (-10) \boxed{\geq} (-31) + (-11)$   
(c)  $45 - (-11) \boxed{>} 57 + (-4)$   
(d)  $(-25) - (-42) \boxed{\geq} (-42) - (-25)$
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)  $50 - (-40) - (-2)$   
 $= 50 + 40 + 2$   
 $= 92$