Q1. Write opposite of the following:

(a) Increase in weight
(b) 30 km north
(c) 326 BC
(d) Loss of Rs. 700
(e) 100 m above sea level
Ans:
(a) Decrease in weight
(b) 30 km south
(c) 326 AD
(d) Profit of Rs. 700
(e) 100 m below sea level

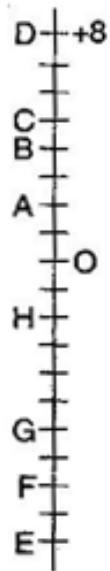**Q2.** Represent the following numbers as integers with appropriate signs.
(a) An aeroplane is flying at a height two thousand meters above the ground.
(b) A submarine is moving at a depth eight thousand meters below the sea level.
(c) A deposit of rupees two hundred.
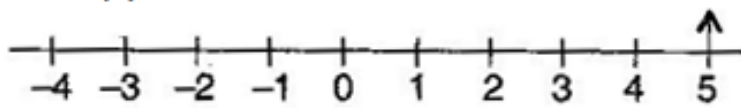(d) Withdrawal of rupees seven hundred.
Ans:
(a) (+) 200 meters
(b) (−) 800 meters
(c) (+) 200 Rupees
(d) (−) 700 Rupees

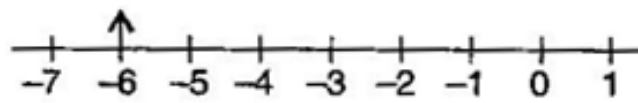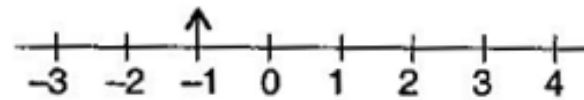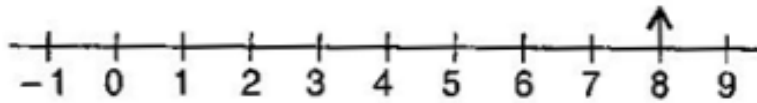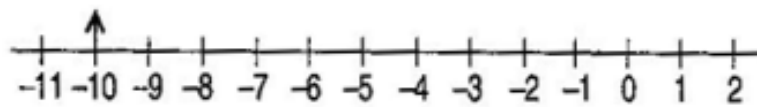**Q3.** Represent the following numbers on number line:

(a) +5
(b) −10
(c) +8
(d) −1
(e) −6

```
D ┼ +8
  ┬
  ┼
C ┼
B ┼
  ┬
A ┼
  ┬
  ┼ O
  ┬
H ┼
  ┬
  ┼
  ┬
G ┼
  ┬
F ┼
  ┬
E ┼
```

Ans: (a)

```
─┼──┼──┼──┼──┼──┼──┼──┼──┼──┼─↑→
 −4 −3 −2 −1  0  1  2  3  4  5
```

(b)

Q4. 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?
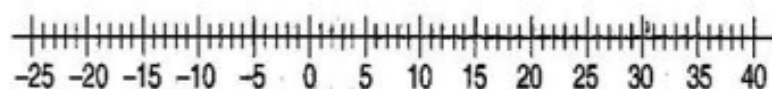(e) Arrange all the points in decreasing order of values.
Ans:

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

Q5. 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	—————————

(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.
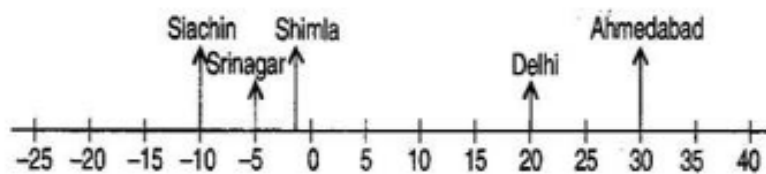
(a) Which is the coolest place?
(b) Write the names of the place where temperature are above 10oC.
Ans:
(a)

Place	Temperature
Siachen	(-) 10∘C
Shimla	(−) 2∘C
Ahmedabad	(+) 30∘C
Delhi	(+) 20∘C
Srinagar	(−) 5∘C

(b) Number line

(c) Siachin
(d) Ahemadabad, Delhi

Q6. 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
Ans:
(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

Q7. 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
Ans:
(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

Q8. (a) Write four negative integers greater than −20.
(b) Write four negative integers less than −10.
Ans:
(a) −19, −18, −17, −16
(b) −11, −12, −13, −14

Q9. 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.
Ans:
(a) True
(b) False
(c) False
(d) False

Q10. 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.

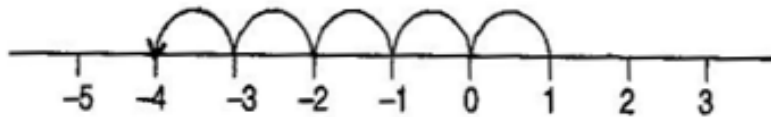(c) If we are at −8 on the number line, in which direction should we move to reach −13?

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

Ans:

(a)

(b)

(c) On left side

(d) On right side

********** END *********