

Mathematics

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(Chapter - 6) (Integers)

(Class - VI)

Exercise 6.1

Question 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 | |

Answer 1:

- | | |
|---------------------------|--------------------|
| (a) Decrease in weight | (b) 30 km south |
| (c) 326 AD | (d) Profit of ₹700 |
| (e) 100 m below sea level | |

Question 2:

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.

Answer 2:

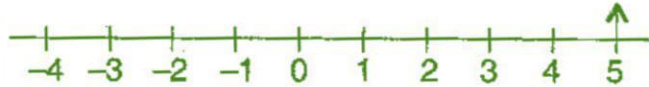
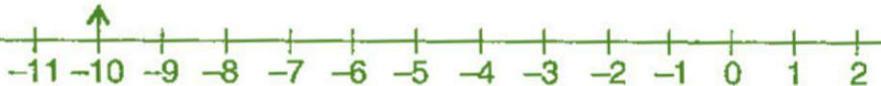
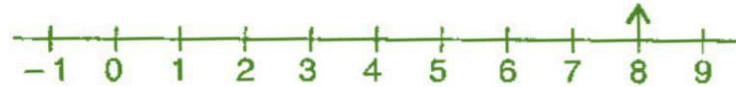
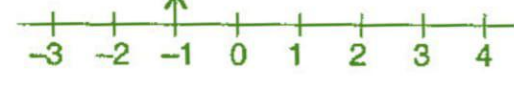
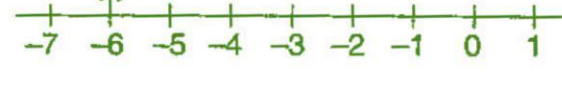
- (+) 200 meters
- (-) 800 meters
- (+) 200 Rupees
- (-) 700 Rupees

Question 3:

Represent the following numbers on number line:

- | | |
|--------|---------|
| (a) +5 | (b) -10 |
| (c) +8 | (d) -1 |
| (e) -6 | |

Answer 3:

- (a) 
- (b) 
- (c) 
- (d) 
- (e) 

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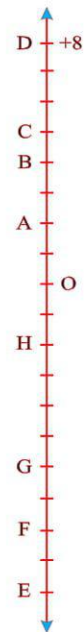
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Question 4:

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.



Answer 4:

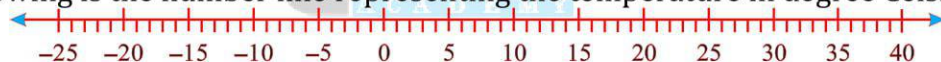
- F
- Negative
- B = (+) 4; E = (-) 10
- E
- D, C, B, A, O, H, G, F, E

Question 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.



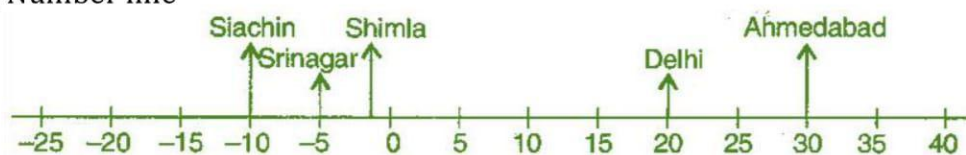
Plot the name of the city against its temperature.

- Which is the coolest place?
- Write the names of the place where temperature are above 10°C.

Answer 5:

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

- Number line



- Siachin
- Ahemadabad, Delhi

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Question 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

Answer 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

Question 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

Answer 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

Question 8:

- (a) Write four negative integers greater than -20.
(b) Write four negative integers less than -10.

Answer 8:

- (a) -19, -18, -17, -16 (b) -11, -12, -13, -14

Question 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.

Answer 9:

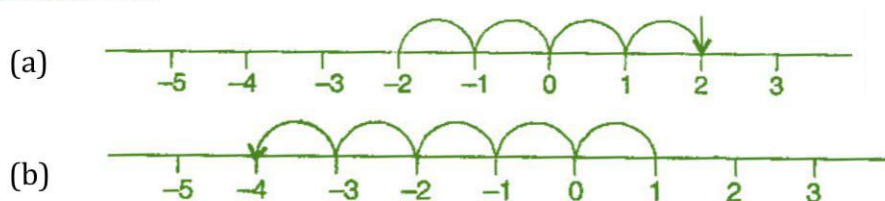
- (a) True (b) False (c) False (d) False

Question 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?

Answer 10:



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