2 Integers

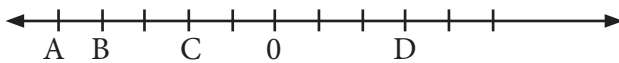**Q1.** **Observe the number line carefully and answer the questions given below:**

A B   C   0   D

   a.   Which integer is represented by predecessor of point C? _____

   b.   Which integer is smaller: integer represented by Point A or Point B? _____

   c.   −7 will be on which side of point D, left or right? _____

   d.   Which integer is 3 more than the integer represented by Point A? _____

Q2. **State True or False for the statements given below:**

   a.   If the temperature fell 4°C below zero, the temperature is −4°C.

      _____

   b.   If Rahul is standing on three floors above the ground floor, he is standing at level +3.

      _____

   c.   If Tarun climbed up three stairs and then turned around to climb down 5 stairs, his displacement from starting position is 5 stairs.

      _____

Q3. **Evaluate and match the following:**

4 more than −10	14
Sum of 4 and |−10|	−3
Predecessor of −2	−1
A negative integer greater than −2	−6

Q4. The following table shows the points scored by four teams in the final round:

Team A	−10
Team B	5
Team C	−5
Team D	10

Arrange the points in ascending order and find which team scored the highest in this round.

Answer: _____ < _____ < _____ < _____

_____ scored the highest.

Q5. Evaluate and put the correct sign <, > or =:

a. $|-2 - 3| \times 10$ _____ 3×10

b. $|-5 - 2|$ _____ $-2 + 7$

c. $|-10 - 4| \div 2$ _____ $|-5 - 2|$

Q6. Point X represents −7 on the number line. Which integer will you reach if you:

a. Add 4 to it : _____

b. Subtract − 3 from it : _____

c. Move 5 integers to the left : _____

d. Move 7 integers to the right : _____

Q7. The sum of two numbers is −783. If one number is −800, find the other number.

Answer: _____

Q8. Simplify:

$[-91 \div (-7) + \{13 \times (-1 - 2)\}] \times \{(110 \div (-10)\}$

Answer: _____

Q9. Riya has ₹3500 in her account. On Monday she withdrew ₹500 for buying groceries. On Tuesday morning she deposited ₹1200 and withdrew ₹750 in the evening. Find her current bank balance.

Answer: _____

Q10. The speed of a moving car was 10 m/sec. On applying the brakes of a car, its speed reduced by 2 m every second. In how many seconds will the car stop?

Answer: _____

Answers

1. a. –3; b. Point A; c. left; d. –2
2. a. True; b. True; c. False
3.

4 more than –10	–6
Sum of 4 and |–10|	14
Predecessor of –2	–3
A negative integer greater than –2	–1

4. –10 < –5 < 5 < 10; Team D
5. a. >; b. >, c. =
6. a. –3; b. –4; c. –12; d. 0
7. 17
8. 286
9. ₹3450
10. 5 seconds