Important Questions for CBSE Class 6 Maths Chapter 6 – Integers

Ch-6 Integers

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1. Write numbers with appropriate signs: 40°°C below 0°°C temperature.
    1. 30
    2. 40
    3. -40
    4. None of these
2. 2 subtracted from 7 gives
    1. -5

    2. 5

    3. -9

    4. 9

3. Fill in the blanks with >, < or = sign. (− 3) + (− 6) _____ (− 3) − (− 6)

    1. <

    2. >

    3. None of these

    4. =
4. The number of integers between -2 and 2 is
    1. 3

    2. 5

    3. 4

    4. 2

5. Sum of (− 9) and 15.

    1. 90

    2. -6

    3. 6

    4. 20

6. **Match the following:**

Column A	Column B
(a) 10 steps to the right	(p) -1000
(b) 10 km below sea level	(q) 1000
(c) Deposit Rs. 1000 in a bank	(r) 10
(d) Spending Rs. 1000	(s) -10

7. **Fill in the blanks:**

1. When we subtract -10 from 18 we get _____.
2. _____ is an integer which is neither positive nor negative.
3. $272 - 198 - $ _____ $= 0$.
4. $15 + $ _____ $= 0$

8. **State whether the following statements are true or false:**

1. If a and b are any two integers such that $a > b$, then $-a > -b$.
2. If the sum of an integer and its opposite is zero, then they are called additive inverses of each other.
3. The negative of 0 is -0.
4. The sum of positive and negative integers is always negative.

9. Write four negative integers less than -20.

10. Write all the integers between -8 and -15. (Write them in the increasing order.)

11. Find the solution of the following :$(-9) + (+13)$

12. Subtract :$(-20) - (-13)$

13. Find the value of :$(-7) + (-9) + 4 + 16$

14. Using number line, add the following integers: $9 + (-6)$.

15. The temperature on a certain morning is -11℃ at 5 a. m. If the temperature drops 3 degree at 6 a.m. and rises 5 degree at 8 a.m. and again drops 3 degree at 9 a.m. What is the temperature at 9 a.m.?

Answer

1.
   c. (c) -40
      Explanation: below means less than 0 so it is -40

2.
  b. 5
    Explanation: $7 - 2 = 5$

3.
  a. $<$
    Explanation: -3 -6 = -9
    -3 − (-6) =- 3 +6 = 6- 3 = 3
    so -9 < 3

4.
  a. (a) 3
    Explanation: intergers between -2 and 2 are -1,0, 1 so 3 integers

5.
  c. 6
    Explanation: -9 + 15 = 15 − 9 = 6

6.
  1. – (r)
  2. – (s)
  3. – (q)
  4. – (p)

7.
  1. 28;
  2. 0;
  3. 74;
  4. -15

8.
  1. False
  2. True
  3. False; zero is neither negative nor positive
  4. False

9. Four negative integers less than −20 are -21, -22, -23 and − 24.

10. The integers between −8 and −15 in increasing order are −14, −13, −12, −11, −10 and −9.

11. (−9) + (+13)
    = (−9) + (+9) + (+4)
    = 0 + (+4) = +4

12. (−20) − (−13)
    = (−20) + (additive inverse of -13)
    = (−20) + (13) = −7

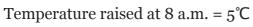13. (−7) + (−9) + 4 + 16
    = (−16) + 20
    = (−16) + 16 + 4
    = 0 + 4 = 4

14. On the number line we first move 9 steps to the right from 0 reaching 9 and then we move 6 steps to the left of 9 and reach 3.

Thus, 9 + (-6) = 3

15. Temperature at 5 a.m. = -11℃

Temperature decreased at 6 a.m. = 3℃ = -3

Temperature raised at 8 a.m. = 5℃ = +5

Temperature decreased at 9 a.m. = 3℃ = -3

Final temperature at 9 a.m. = (-11) + (-3) + (+5) + (-3)

= -11 − 3 + 5 − 3

= -17 + 5

= -12℃.