

Class - VII
Chapter - 1 Integers

Q-1 Verify $a - (-b) = a + b$ for the following values of a and b

i) $a = 76$, $b = 84$

ii) $a = 28$, $b = 14$

Q-2 Write down a pair of integers whose

i) sum is -3

iii) sum is 0

ii) difference is -5

iv) difference is 2

Q-3 Find the products:

i) $(-315) \times (-2)$

ii) $(-12) \times (-11) \times 10$

iii) $9 \times (-5) \times (-7)$

iv) $(-6) \times (-3) \times (-4) \times (-1)$

Q-4 Evaluate the following:

i) $(-36) \div (-9)$

ii) $(-31) \div (-30) + (-1)$

iii) $[(-6) + 5] \div [(-2) + 1]$

iv) $80 \div (-5)$

Q-5 Use the sign of $>$, $<$ or $=$ in the box

i) $23 - 41 + 11$

$23 - 41 - 11$

ii) $15 - 8 + (-7)$

$7 + (-3) - 19$

Q-6 Answer the following:

i) A pair of negative integers whose difference is 8

ii) A negative integer and a positive integer whose sum is -5

Q-7 At Shimla, temperature was -5°C on Sunday. It

dropped by 2°C on Monday. What was the temperature of Shimla on Monday? On Tuesday, it rose by 6°C . What was the temperature on Tuesday?

Q-8. Find the product, using suitable properties:

i) $(-51) \times 102$

ii) $725 \times (-25) + 725 \times 75$

iii) $8 \times 5.3 \times (-125)$

iv) $15 \times (-25) \times (-4) \times (-10)$

Q-9. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C every hour. What will be the room temperature 10 hours after the process begins?

Q-10. In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer.

(i) Ashish attempts all questions but only 9 of his answers are correct. What is his score?

(ii) Ronak gets only 5 answers correct. What is his score?

Q-11. The temperature at 12 noon was 10°C above zero. If it decreases at the rate of 2°C per hour until midnight, at what time would the temperature be 8°C below zero? What would be the temperature at mid-night?

Q-12 In a class test (+3) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question.

i) Mayank scored 20 marks. If he has got 12 correct answers, how many questions has he attempted incorrectly?

ii) Gaurav scores (-5) marks in the test, though he has got 7 correct answers. How many questions has he attempted incorrectly?