Summer Vacation Holiday Homework

Class – VII

Subject – Mathematics

Q 1. What is the value of (-23) -[(-25) –{(-17)-(-19)}]

Q 2. What should be subtracted from -1963 to obtain -9512?

Q 3. What is the additive inverse of the result obtained by subtraction of -8 from the additive inverse of -13?

Q 4. What is the sum of additive inverse of -29 and 61?

Q 5. The temperature of a city was found to be 3℃ on a particular day. Next day the temperature was found to be -4℃. What is the change in the temperature of the city over the two days.

Q 6. Verify a-(-b) = a + b for the following values of a and b

   (a) a = 75   b = 84
   (b) a = 118   b = 125
   (c) a = 25   b = 30

Q 7. Write down a pair of integers whose

   (a) sum is -3
   (b) sum is 0
   (c) difference is -5
   (d) product is -12

Q 8. Verify the following:

   a) (-21) × [(-4) + (-6)] = [(-21) × (-4)] + [(-21) × (-6)]
   b) 15 × [6 + (-3)] = [15 × 6] + [15 × (-3)]

Q 9. Evaluate the following:

   a) (-100) ÷ 5
   b) (-41) ÷ [(-40) + (-1)]
   c) 0 ÷ (-18)
   d) [(-36) + 12] ÷ 3

Q 10. A man walked 3 km towards North then 8 km towards South. What is his final position with respect to his initial position?

A) 5 km towards East   B) 3 km towards South

C) 8 km towards North   D) 5 km towards South

Q 11. In a quiz, positive marks were given for correct answers and negative marks for incorrect answers. If Guru's scores in five successive rounds were

35,−10,−15, 20 and 5, what is his total score at the end?

Q 12. On a number line, when we add a positive integer, we
(a) move to the right
(b) move to the left
(c) do not move at all
(d) none of these.

Q 13. (-1) × (-1) × (-1) × ……… 10 times is equal to-------.

Q 14. If (-50) ÷ x = 1, then x is equal to--------.

Q 15. Manish deposits Rs 2000 in his bank account and withdraws Rs 1000 from it, the next day. Find the balance in Manish's account after the withdrawal.

Q 16. A water tank has steps inside it. A monkey is sitting on the topmost step (i.e., the first step). The water level is at the ninth step.

  (i)   He jumps 3 steps down and then jumps back 2 steps up. In how many jumps will he reach the water level?
  (ii)   (ii) After drinking water, he wants to go back. For this, he jumps 4 steps up and then jumps back 2 steps down in every move. In how many jumps will he reach back the top step?

Q 17. 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)   Gurpreet attempts all questions but only 9 of her answers are correct. What is her total score?
  (ii)   (ii) One of her friends gets only 5 answers correct. What will be her score?

Q 18. Suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer, then answer the following:

  (i)   An elevator descends into a mine shaft at the rate of 5 metre per minute. What will be its position after one hour?
  (ii)   (ii) If it begins to descend from 15 m above the ground, what will be its position after 45 minutes

 Q 19. In a test (+5) marks are given for every correct answer and (−2) marks are given for every incorrect answer.

  (i)   Radhika answered all the questions and scored 30 marks though she got 10 correct answers.
  (ii)   (ii) Jay also answered all the questions and scored (−12) marks though he got 4 correct answers. How many incorrect answers had they attempted?

Q 20. An elevator descends into a mine shaft at the rate of 6 m/min. If the descent starts from 10 m above the ground level, how long will it take to reach – 350 m.

NOTE – Revise chapter 1 and chapter 2 up to exercise 2.1 and do in your notebook.