Practice Material for Periodic Test-I

WORKSHEET
CLASS VII
SUBJECT MATHEMATICS

1. In a class test containing 15 questions, 3 marks are given for every correct answer and -1 marks are given for every incorrect answer. Mona attempts all questions but 9 of her answers are incorrect. Find her total score.

2. Verify: a – (-b) = a + b for the values of a and b
   (i) a = 2, b = -1
   (ii) a = -1, b = 2

3. Can we say integers are closed under subtraction?

4. Find the product: (16) x (-2) x (5) x (-7)

5. Verify: (-40) x [23 + (-1)] = [(-40) x 23] + [(-40) x (-1)]

6. A certain freezing process requires that room temperature be lowered from 36°C at the rate of 4°C. Find the room temperature after 6 hours.

7. An elevator descends into a mine shaft at the rate of 4m per minute. What will be its position after 1 hour 30 minutes? (suppose the distance above the ground represented by a positive integer and below the ground by a negative integer)

8. Verify that a ÷ (b + c) not equal to (a ÷ b) + (a ÷ c) for a = -15, b = 3, c = 1

9. Write 5 equivalent fractions of $\frac{2}{5}$.

10. Seema studies for $5\frac{2}{3}$ hours daily. She devotes $2\frac{4}{5}$ hours of her time for science and mathematics. How much time does she devote for other subject?

11. A spider crawls up 5 cm every second on a 60 cm vertical rod and then falls down 2 cm over the next second. How many seconds will it take to climb the rod?

12. A tank contains 500 litres of water. Due to a small hole in the tank, the quantity of water is
    decreasing at the rate of 9 litres every hour. What will be the quantity of water in the tank after 5 hours?

13. Sam was playing a game. He scored 24 points in the first round but lost 7 points in the second round. He again scored 10 points in the third round but lost 4 points in the fourth round. Find his final score.

14. A plane is flying at the height of 11000 m above the sea level. At a particular point, a submarine   exactly below the plane is floating 1400 m below the sea level. What is the vertical distance between the plane and the submarine?

15. A tree is standing behind a building. $\frac{2}{5}$ of the height of the tree can be seen and the rest is hidden by the building. The building is 9 metres high. What is the height of the tree?

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