Nishant eAcademy
CBSE Sample Paper Class 8 Mathematics 2021-22

Subject: Mathematics Class: 8 Maximum Marks: 80 Duration: 2 hours

Section A: Objective Type Questions (Each question carries 1 mark)

1. Which of the following is a prime number? (a) 6 (b) 9 (c) 11 (d) 15

2. Solve the equation: $3x + 5 = 17$. (a) $x = 4$ (b) $x = 6$ (c) $x = 7$ (d) $x = 8$

3. What is the value of $(4/7) \times (7/9)$? (a) 1/2 (b) 2/3 (c) 4/9 (d) 7/9

Section B: Short Answer Type Questions (Each question carries 2 marks)

4. Find the volume of a cube with side length 5 cm.

5. Simplify the expression: $(3a - 2b) + (5b - 4a)$.

Section C: Long Answer Type Questions (Each question carries 3 marks)

6. A train travels a distance of 480 km in 6 hours. What is its speed in km/h?

7. The length of a rectangle is twice its breadth. If the perimeter of the rectangle is 48 cm, find its length and breadth.

Section D: Application-Based Questions (Each question carries 5 marks)

8. The cost of 5 kg of apples is Rs. 200. Find the cost of 3 kg of apples using the unitary method.

9. In a class of 40 students, 24 like to play cricket and 16 like to play football. If 8 students like to play both cricket and football, how many students like to play only cricket?