



Nishant eAcademy

CBSE Sample Paper Class 8 Mathematics 2023-24

Subject: Mathematics Class: 8 Maximum Marks: 80 Duration: 2.5 hours

Section A: Multiple Choice Questions (Each question carries 1 mark)

1. Which of the following is a rational number? (a) $\sqrt{2}$ (b) 0.5 (c) π (d) $\sqrt{5}$
2. The HCF of two numbers is 12 and their LCM is 60. What are the numbers? (a) 12 and 60 (b) 12 and 48 (c) 12 and 24 (d) 12 and 36
3. The circumference of a circle is 44 cm. What is its radius? (a) 11 cm (b) 7 cm (c) 22 cm (d) 14 cm

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

4. Solve the equation: $3x - 5 = 10$
5. Find the volume of a cube with side length 5 cm.

Section C: Long Answer Questions (Each question carries 4 marks)

6. Find the area of a triangle with base 8 cm and height 12 cm.
7. A shopkeeper buys a bicycle for Rs. 4000 and sells it for Rs. 5000. Find his profit percentage.

Section D: High Order Thinking Questions (Each question carries 6 marks)

8. A number is increased by 20% and then decreased by 10%. Find the net percentage change in the number.
9. A rectangular field is 60 m long and 40 m wide. A path of width 5 m is constructed around the field. Find the area of the path.