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CBSE Sample Paper Class 8 Mathematics 2019-20

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

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

1. Which of the following is a prime number? (a) 10 (b) 15 (c) 23 (d) 30

2. The value of √64 is: (a) 4 (b) 6 (c) 8 (d) 10

3. If a triangle has sides of lengths 5 cm, 6 cm, and 7 cm, then the triangle is: (a) Equilateral (b) Isosceles (c) Scalene (d) Right-angled

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

4. Solve the following equation: 3x + 5 = 17

5. Find the area of a rectangle with length 8 cm and width 5 cm.

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

6. The circumference of a circle is 44 cm. Find its radius and area.

7. Find the HCF (Highest Common Factor) of 36 and 48 using the prime factorization method.

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

8. A bag contains 5 red marbles, 4 blue marbles, and 3 green marbles. If one marble is drawn at random, what is the probability of getting a blue marble?

9. The sum of the angles of a quadrilateral is 360 degrees. If the measures of three angles are given as 80°, 90°, and 100°, find the measure of the fourth angle.