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## CBSE Sample Paper Class 9 Mathematics 2023-24

Subject: Mathematics Class: 9 Maximum Marks: 80 Duration: 3 hours
Section A: Objective Type Questions (1 mark each)

1. The value of $\sqrt{ } 64$ is: (a) 8 (b) 4 (c) 16 (d) 6
2. The median of the data $5,7,3,9,2,6,4$ is: (a) 4 (b) 5 (c) 6 (d) 7
3. If the circumference of a circle is 22 cm , then its radius is: (a) 3.5 cm (b) 7 cm (c) 11 cm (d) 14 cm

Section B: Short Answer Type Questions (2 marks each)
4. Solve the equation: $2 x+5=17$
5. Find the value of ' $k$ ' if the line $y=2 x+k$ passes through the point $(3,7)$.
6. The angles of a triangle are in the ratio $2: 3: 5$. Find the measure of each angle.

Section C: Long Answer Type Questions (4 marks each)
7. Solve the following simultaneous equations: $3 x-2 y=84 x+5 y=1$
8. A cylindrical tank has a radius of 7 cm and height of 10 cm . Find its volume.
9. In a class of 40 students, 20 play cricket, 15 play football, and 10 play both cricket and football. How many students play either cricket or football?

Section D: Higher Order Thinking Skills Questions (6 marks each)
10. The length of a rectangular field is 8 meters more than its breadth. If the perimeter of the field is 96 meters, find its length and breadth.
11. A bag contains 5 red balls and 7 blue balls. Two balls are drawn at random without replacement. What is the probability that both balls are blue?
12. The cost of 2 notebooks and 3 pens is Rs. 80 , while the cost of 3 notebooks and 2 pens is Rs. 75. Find the cost of each notebook and each pen.
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