Nishant eAcademy

CBSE Sample Paper Class 10 Mathematics 2019-20

Subject: Mathematics Class: 10 Maximum Marks: 80 Duration: 3 hours

Section A: Objective Type Questions (1 mark each)

1. The sum of two rational numbers is always a _____. a) Rational number b) Irrational number c) Whole number d) Integer

2. The perimeter of a square with side length 5 cm is _____. a) 10 cm b) 20 cm c) 25 cm d) 40 cm

Section B: Short Answer Type Questions (2 marks each)

3. Find the value of 'p' if the equation $2p - 5 = 11$ is true.

4. Solve the pair of equations: $2x + 3y = 7$ and $4x - y = 5$.

Section C: Long Answer Type Questions (4 marks each)

5. In a class, the heights (in cm) of 30 students were recorded and the data was represented in the following histogram. Study the histogram and answer the questions. [Histogram diagram] a) How many students have a height between 140 cm and 150 cm? b) What is the range of heights of the students? c) Find the median height of the students.

6. The angles of a triangle are in the ratio of 2:3:5. Find the measure of each angle.

Section D: Higher Order Thinking Skills (6 marks each)

7. A container is in the shape of a frustum of a cone. The radii of the circular ends are 14 cm and 7 cm, and the height is 18 cm. Find the volume of the frustum.

8. A die is rolled twice. Find the probability of getting a sum greater than 8.