CBSE Board Examination
Class 7 - Mathematics

Date: 02-10-2025

Section A - Multiple Choice Questions

Q1. The product of two integers is -144. If one of the integers is 16, what is the other integer? (2 marks)

   a. -9

   b. 9

   c. -16

   d. 16

Q2. Simplify the expression using laws of exponents: $3^2 \times 3^3$. (2 marks)

   a. 3^6

   b. 3^5

   c. 9^5

   d. 6^5

Q3. If an item is purchased for ₹ 500 and sold for ₹ 625, what is the profit percentage? (2 marks)

   a. 20%

   b. 25%

   c. 15%

   d. 30%

Q4. If an angle measures $40°$, what is the measure of its supplementary angle? (2 marks)

   a. 50°

   b. 140°

   c. 90°

   d. 180°

Q5. A number is multiplied by 3 and then 7 is subtracted from the result. If the final result is 14, what is the number? (2 marks)

   a. 7

   b. 5

c. 21

d. 10

Section C - Short Answer Questions

Q6. Calculate the area of a rectangular garden whose length is 15 m and breadth is 10 m. Also, find the total cost of fencing the garden at the rate of ₹ 50 per meter. (4 marks)

Q7. In $\triangle ABC$, if $\angle A = 50°$ and $\angle B = 60°$, find the measure of the exterior angle formed at vertex C when side BC is extended. (4 marks)

Q8. Find the mean and the median of the following data set: 12, 15, 18, 11, 15, 13, 15. (4 marks)

Q9. A carpenter needed $15 \frac{1}{2}$ kg of wood for a project. He currently has three pieces weighing $4 \frac{1}{4}$ kg, $5 \frac{3}{4}$ kg, and $2 \frac{1}{2}$ kg. How much more wood does he need, expressed as a rational number? (4 marks)

Q10. Simplify the algebraic expression by combining the like terms: $5x^2 - 3y^2 + 2x^2 + 4y^2 - 7xy + 3xy$. (4 marks)