

Board - ICSE

Class - 8th

Topic - Square and Square Root

Section A: Multiple Choice Questions (1 mark each)

1. What is the square of -5 ?
(A) 25 (B) -25 (C) 10 (D) -10
2. $\sqrt{196} = ?$
(A) 12 (B) 13 (C) 14 (D) 15
3. Which of the following is **not** a perfect square?
(A) 81 (B) 121 (C) 169 (D) 235
4. What is the number of digits in the square of 99?
(A) 3 (B) 4 (C) 5 (D) 2
5. Between 99^2 and 100^2 , how many non-perfect square numbers lie?
(A) 198 (B) 200 (C) 199 (D) 1

Section B: Subjective Questions (2 marks each)

6. Is 2352 a perfect square? If not, find the smallest number to multiply it by to make it one, and find the resulting square root.
7. Compute $\sqrt{144}$ using the method of repeated subtraction.
8. In a right triangle, the perpendicular sides are 14 cm and 48 cm. Find the hypotenuse.

Section C: Subjective Questions (3 marks each)

9. Find the least number that must be added to 1750 to make it a perfect square. Also, find the square root of the resulting number.
10. A rectangle has an area of 1936 m^2 and its length is 4 times its breadth. Find its dimensions.

Section D: Problem Sums (4 marks each)

11. A gardener has 4225 plants and wants to arrange them in a square format with the same number of rows and columns. Find how many plants will be in each row and column.
12. What is the greatest 6-digit number which is a perfect square? Also, find its square root.