

Board –CBSE	Class – 8 th	Topic – Squares and Square Roots
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Section A: Multiple Choice Questions (1 mark each)

1. Which number has 8 at unit's place in its square?
a) 2 b) 4 c) 6 d) 8
2. If $\sqrt{x} = 11$, then $x = ?$
a) 111 b) 121 c) 131 d) 101
3. Which of the following is a square of an odd number?
a) 36 b) 81 c) 100 d) 144
4. Which of the following cannot be a perfect square?
a) 400 b) 225 c) 350 d) 625
5. Which one of these is the square of a prime number?
a) 121 b) 169 c) 289 d) 361

Section B: Short Answer Questions (2 marks each)

6. Find the square root of 324 using division method.
7. Is 88209 a perfect square? Justify your answer using prime factorization.
8. Write the square of first five natural numbers and find the difference between 5^2 and 1^2 .

Section C: Short Answer Questions (3 marks each)

9. Find the smallest number by which 147 must be divided to get a perfect square. Also, find the square root of the quotient.
10. Find the number of perfect square numbers between 1 and 1000.

Section D: Long Answer Questions (4 marks each)

11. A gardener wants to fence a square flower bed of area 625 m^2 . What will be the length of the rope required to fence the bed twice? Also, find the cost at 12 per metre.
12. Find the smallest square number divisible by 8, 9, and 10.