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

1. The square of 13 is:
a) 159 b) 169 c) 149 d) 179
2. The number of digits in the square of 25 is:
a) 2 b) 3 c) 4 d) 5
3. Which of the following numbers is a perfect square?
a) 242 b) 256 c) 350 d) 485
4. The square root of 625 is:
a) 20 b) 25 c) 30 d) 35
5. What is the square of a negative number?
a) Positive b) Negative c) Zero d) None of these

Section B: Short Answer Questions (2 marks each)

6. Find the square of the following numbers:
a) 32
b) 15
7. Without actual multiplication, show that $88^2 - 87^2 = 175$.
8. Find the square roots of the following using prime factorization:
a) 144
b) 196

Section C: Short Answer Questions (3 marks each)

9. Find the smallest number by which 180 must be multiplied to make it a perfect square. Also, find the square root of the resulting number.
10. A number lies between 30^2 and 31^2 and is a perfect square. Find the number.

Section D: Long Answer Questions (4 marks each)

11. Find the least number which must be subtracted from 1000 so that the resulting number is a perfect square. Also, find its square root.
12. The area of a square plot is 784 m^2 . Find the side of the plot and the cost of fencing it at 50 per metre.