Board-ICSE	Class – 8th	Topic – Square and Square Root

Section A: Multiple Choice Questions (1 mark each)

1. What is the square of -7?
   (A) 49 (B) -49 (C) 14 (D) -14

2. $\sqrt{529} = ?$
   (A) 23 (B) -23 (C) ± 23 (D) None

3. Which of the following is a perfect square?
   (A) 98 (B) 144 (C) 150 (D) 200

4. The square of 6.5 is:
   (A) 39.25 (B) 42.25 (C) 40.75 (D) 36.25

5. How many non-perfect squares lie between 12^2 and 13^2?
   (A) 24 (B) 25 (C) 26 (D) 23

Section B: Subjective Questions (2 marks each)

6. Without calculation, determine the square root of 0.0049.

7. Find the smallest number by which 720 must be multiplied to become a perfect square. Also, give the square root of the resulting number.

8. A square field has an area of 8281 m^2. Find the length of each side.

Section C: Subjective Questions (3 marks each)

9. Using prime factorization, find $\sqrt{1,396,225}$.

10. If $\sqrt{x} = 37.5$, find the value of x. Also verify by squaring your answer.

Section D: Problem Sums (4 marks each)

11. The sum of two consecutive positive integers is 212. Show if this sum is a perfect square. If yes, find the two numbers.

12. A gardener has 1400 plants and wants to plant them in a square grid (same number in each row and column).

    - Is 1400 a perfect square? If not, what is the nearest larger perfect square he can achieve?
    - How many extra plants does he need? Also, give the number of plants per side of the square.