SATISH CHANDRA MEMORIAL SCHOOL

Class: VIII Ch: 6 (Squares & Square Roots)

Worksheet -5

1. How many numbers lie between the squares of the following numbers?
   i) 10 and 11
   ii) 100 and 101

2. Evaluate: $\frac{\sqrt{288}}{\sqrt{128}}$

3. Find the least perfect square exactly divisible by each one of the numbers 4, 5, 10.

4. Find the smallest number by which 396 must be multiplied so that the product becomes a perfect square.

5. Find the least perfect square exactly divisible by each one of the numbers 8, 9, 10.

6. Find the greatest number of four digits which is a perfect square.

7. What least number must be added to 5607 to make the sum a perfect square?

8. The area of a square field is 60025 sq m. Find the perimeter of the field.

9. Find the least number which must be subtracted from 2509 to make it a perfect square.

10. Observe the pattern and find the missing numbers:
    $(11)^2 = 121$
    $(101)^2 = 10201$
    $(1001)^2 = 1002001$
    $(10001)^2 =$ _____
    $(100001)^2 =$ _____
    $(1000001)^2 =$ _____
    $(10000001)^2 =$ _____