CLASS: <u>VIII</u>   SUBJECT: <u>Mathematics</u>   DATE: <u>08/09/2023</u>
<u>LESSON-6   Squares and Square Roots</u>

1) Square of a number is obtained by multiplying a number by _____.

2) Square numbers are also called _____.

3) No.of zeros at the end of a square number is _____.

4) Squares of odd numbers are _____.

5) How many numbers lie between 7^2 and 8^2 ?

6) Represent 64 as the sum of odd numbers .

7) $15 \times 17 = \underline{\quad}^2 - 1$

8) Find the squares of : 37^2 and 75^2 .

9) Write the ones digit in : 33^2 and 54^2 .

10) Find the pythagorean Triplet whose one member is 17.

11) Find square root of 225 using repeated subtraction method.

12) Which of the following are square numbers:
    453 , 144 , 502 , 727.

13) Find $\sqrt{19600}$ using prime factorisation method.

14) Find the least number to be multiplied to 162 to make it a perfect square.

15) Find the least number to be divided from 300 to make it a perfect square.

16) Find the smallest square number divisible by 3,4 and 5.

17) Find $\sqrt{3249}$ using Long Division Method.

18) Find $\sqrt{20.25}$ using Long Division Method.

19) In a garden there are 1024 plants. The no.of rows of plants is equal to the no.of columns. Find the no.of rows of plants in the garden.

20) Find the least number to be multiplied to 845 to make it a perfect square. Also Find the square root of the new number so obtained.

ANSWERS

5) 14	10) 8 , 15 , 17	15) 3
7) 16	11) 15	16) 900
8) 1369, 5625	13) 140	17) 57
9) 9 , 6	14) 2	18) 4.5
	19) 32	20) 5 , 65