Squares and Square Roots

<1M> 1.Find the square root of 729.

2. Fill in the blank using the given pattern

 $7^2 = 49$ $67^2 = 4489$ $667^2 = 444889$ $6667^2 = ____$

3. Without adding find the sum of 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17

4. Find the square root of 1296

5. Express 19² as sum of two consecutive integers

6. How many numbers lie between squares of 99 and 100.

7. Find the square of 35 (without actual multiplication).

8.Numbers like 1, 4, 9, 16, 25,... are known as:

(A) Set of whole numbers (B) Square numbers (C) Integers (D) None

9. Find perfect square between 30 and 40.

(A) 32 (B) 35 (C) 36 (D) 39

10.Square number does not end with at units place.

(A) 2, 3, 7, 8 (B) 1, 2, 3, 4 (C) 4, 5, 6, 7 (D) 1, 4, 6, 8

11. Which of $\frac{123^2, 77^2, 82^2, 109^2}{(B)^{77^2}}$ would end with digit 1. (A) 123^2 (B) $\overline{77^2}$ (C) 82^2 (D) 109^2

12. If a number has 1 or 9 in the units place, then its square end with digit:(A) 9(B) 1(C) 3(D) 2

13.If a numb digit:	er has 4	or 6 in its uni	it's place	, then the squa	re of th	at number ends with the	
(A) 4	(B) 2	(C) 6		(D) None			
14.What will be the "one's digit" in the square of 26387.							
(A) 7		(B) 9	(C) 3	(D) 8			
15.What will be the number of zeros in the square of 400.							
(A) 2		(B) 4	(C) 8	(D) 6			
16.Non perfe	ect squa	re numbers b (B) 2	etween † (C) Infi	the squares of t nits	he num: (D) 2n	nbers (n) and (n + 1) is:	
. ,					()		
17. How many numbers are there between 5^2 and 6^2							
(A) 11		(B) 12	(C) 10	(D) 13			
18. How many non square numbers lie between 1000 ² and 1001 ² .							
(A) 1000		(B) 1001		(C) 2000		(D) 1999	
19.Sum of successive odd numbers 1, 3, 5, 7, 9 and 11 is							
(A) 36		(B) 25	(C) 30	(D) 40			
20.Sum of first 'n' odd natural numbers is							
(A) (n + 1)	(B) n ²	(C) (n - 1)	(D) 2n				
21.Express 2	1 ² as th	e sum of two	consecut	ive integers			
(A) 220 <i>,</i> 199		(B) 220 and 2	221	(C) 221	, 222	(D) None	
22.Product o	of two co	onsecutive eve	en or ode	d natural numb	ers (a +	1) (a - 1) is	
(A) (a ² - 1)		(B) (a + 1)		(C) (a - 1)		(D) None	
23.Product of two consecutive even number 44 and 46 is							
(A) 2025		(B) 2024		(C) 2020	(D) 252	25	

24.Pythagorean tripl	et whose one r	number	6 is			
(A) 6, 8, 10	(B) 6, 9, 12		(C) 3, 4, 6		(D) 6, 5, 4	
25.Square of what n	umber is 121					
(A) Only11	(B) Only (-11)		(C) Both 11 & (-11)		(-11)	(D) None of these
26.Square root of 12	1 is					
(A) -11	(B) 11	(C) Bot	h	(D) None		
27.Square root of 64	00 is					
(A) 80	(B) 64	(C) 32		(D) 3200		
28.What could be th	e possible "one	e's" digit	ts of the	e square	e root o	f 99856.
(A) 6	(B) 4	(C) Bot	h4&6	(D) Noi	ne	
29.Number of digits	in the square r	oot of 9	801 (wi	thout a	ny calc	ulation).
(A) 1	(B) 2	(C) 3		(D) 4		
30.Number of digits	in the square r	oot of 5	29 (witl	hout an	y calcul	lation)
(A) 1	(B) 2	(C) 3	(D) 4			
31.The length of the	side of a squar	e whose	e area i	s 441 m	² is	
(A) 29 m	(B) 21 m		(C) 31 m		(D) 41	m
32.Square root is the	e inverse opera	tion of				
(A) 21	(B) square		(C) Cub	e		(D) None
33.Positive square ro	oot of a numbe	r is den	oted by	the syr	nbol	
(A) ∛	(B) (ii) 🗸		(C) (iii)	√	(D) No	ne of these
34.Square root of de	cimal number	12.25 is				
(A) 6.05	(B) 2.5	(C) 3.5		(D) 0.2	5	

35.Number of digits in the square root of 27225 (without any calculation)								
(A) 2	(B) 3	(C) 4	(D) 5					
36.In a right triangle ABC, $\frac{B}{B}$ = 90 ⁰ , If AC = 13cm, BC = 5cm then AB is equal to:								
(A) 10cm	(B) 12	cm	(C) 8cm	(D) 6cm				
37.Square ro	bot of even squ	lare number is	/ - X	/= N				
(A) Odd	(B) Ev	en	(C) Both	(D) None				
38.Square of 39 is (without actual multiplication)								
(A) 1501	(B) 15	29	(C) 1521	(D) 1527				
39.49 as sum of 7 odd numbers in expressed as								
(A) 1 + 3 + 5	+ 7 + 9 + 11 +	13	(B) 1 + 3 + 5 + 7 + 11 + 13 + 15					
(C) 11 + 7 + 5 + 3 + 1 + 9 + 15			(D) None					
40.What will	be the unit di	git of the squar	e of 555.					
(A) 2	(B) 3	(C) 4	(D) 5					
41.Number (of digits in the	square root of	a perfect squa	re number 14400.				
(Δ) 3	(B) 5	(C) 2	(D) 4					
(1) 5	(0) 5	(0) 2	(0) +					
42.Find the nu	umber of digits	in the square i	root of 390625					
<2M> 43.Find the Sc	quare root of 1	764.						
44. Find the square root of 3136 by division method.								
45.Area of a square plot is 4489 m ² . Find the side of the square plot.								
46.Find the square root of 7.29.								
47.Find the greatest number of 4 digits which is a perfect square.								
48. Find the side of a square whose area is 1024 m^2 .								
49.For what value of x the following statement is correct. (2 marks)								

$$\sqrt{8x} \times \sqrt{2x} = 1.44$$

50.Find 37^2 using identity $(a + b)^2 = a^2 + 2ab + b^2$.

51. Find the square root of
$$\frac{225}{3136}$$

52. Find the Square root of 36 by Successive subtraction.

<4M>

53. Find the smallest number that is divisible by each of the numbers 4, 9 and 10.

54.2025 students are to be made to stand in a field in such a way that each row contains as many students as the number of rows. Find the number of rows and the number of students in each row.

55. Find the square root of 0.9 up to two places of decimal.

56. Find the square root of 2 correct to two places of decimal.

57. Find the square root of 363609.

58.A general wishing to draw up his 64019 men in the form of a solid square, found that he had 10 men even. Find the number of men in the front row?

<6M>

59.Fill in the blanks

(i)
$$\sqrt{49 \times 16} = 7 \times \square$$

(ii) $\sqrt{9 \times \square} = 6 \times 6$

(iv) $\sqrt{\Box} = \sqrt{5} \times \sqrt{6} \times \sqrt{11}$

60.A society collected Rs 92.16. Each member collected as many pairs as there were members: How many members were there and how much did each contribute.

61. Find the least number which must be added to 893304 to obtain a perfect square.