

INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics *Worksheet- SQUARES AND SQUARE ROOTS* SEP 2020

OBJECTIVE TYPE (1 Mark)										
Q.1.	If 1	If m is the square of a natural number n, then n is								
	A	The square of m	B	Greater than m	С	Equal to m	D	Square root of m		
Q.2.	The square root of 441 is									
	A	21	B	12	С	19	D	29		
Q.3.	The square of any number (other than 1) is:									
	A	Either a multiple of 3 or a multiple of 3 plus 1	В	Either a multiple of 4 or a multiple of 4 plus 1	С	Always a multiple of 3	D	Both (A) and (B) are true		
Q.4.	The square root of 14641 will have									
	A	2 digits	B	3 digits	С	4 digits	D	5 digits		
Q.5.	Wl	Which of the following is not the perfect square?								
	Α	361	B	1156	С	1128	D	1681		
Q.6.	$\sqrt{2}$	$\sqrt{24 + \sqrt{144}}$ is equal to								
	A	$\sqrt{30}$	B	6	С	$\sqrt{36}$	D	Both (B) and (C)		
Q.7.	The number of squares between 60 and 70 is									
	Α	0	B	1	С	30	D	2		
Q.8.	The unit place digit in the square of 4487									
	Α	9	B	3	С	1	D	7		
Q.9.	If $6400=2x2x2x2x2x2x2x2x5x5$, then $\sqrt{6400}$ is									
	Α	8	B	800	С	80	D	10		
Q.10.	Th	The number to be added to 320 to get a perfect square number								
	Α	16	B	324	C	320	D	4		

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Fill in the blanks(1mark)						
Q.11.	The inverse operation of square is					
Q.12.	The square of 125 is					
Q.13.	The value of $\sqrt{\frac{1}{16}}$ is					
Q.14.	The square of an odd number is an					
Q.15.	The number of non-square numbers between 150^2 and 151^2 is					
SECTION B (2 marks)						
Q.16.	Without actual adding find the sum of 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19					
Q.17.	Express 15^2 as the sum of two consecutive integers.					
Q.18.	A commander arranges his men, who were 11,030 in number, in the form of a square and found that 5 men are left over. How many men were there in each row?					
Q.19.	Find the smallest square number which is divisible by the given below numbers? (i) 2,4 and 6 (ii) 3, 6 and 18					
Q.20.	Write a Pythagorean triplet whose one member is 28.					
	SECTION C (4 marks)					
Q.21.	Find the smallest whole number by which it should be multiplied and divided so as to make a perfect square number for each of the following numbers also find the square root of the perfect square number? (a)768 (b)1980					
Q.22.	Find the square root of each of the following numbers by long division method. (a)53361 (b)8649 (c) 84.64					
Q.23.	Find the least number that must be subtracted from 5607 so as to make a perfect square number?					
Q.24.	Find the greatest number of five digits which is a perfect square?					
Q.25.	Estimate the value of the following to the nearest whole number? (a) $\sqrt{285}$ (b) $\sqrt{590}$					

Answers									
Answers	1	D	2	А	3.	D	4	В	
	5	С	6	D	7	В	8	А	
	9	С	10	D	11	Square root	12	15625	
	13	1/4	14	Odd no.	15	300	16	100	
	17	112,113	18	105	19	(i)36 (ii)36	20	28,195,197	
	21	(i)3,48,3,16 (ii)55,330,55,6	22	a)231 b)93 c)9.2	23	131	24	99856	
	25	(i)17(ii) 24							