



INDIAN SCHOOL AL WADI AL KABIR
Class VIII, Mathematics *Worksheet- SQUARES AND SQUARE ROOTS*

30-08-2020

OBJECTIVE TYPE (1 Mark)

Q.1.	How many natural numbers lie between the squares of 108 and 109 is:							
	A	216	B	218	C	217	D	109
Q.2.	The value of $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19$ is:							
	A	10	B	100	C	81	D	121
Q.3.	Which of the following is not a perfect square?							
	A	361	B	1128	C	729	D	625
Q.4.	Which of the following is the square of an even number?							
	A	289	B	225	C	256	D	441
Q.5.	Which of the following will have 4 at unit place?							
	A	25^2	B	38^2	C	37^2	D	74^2
Q.6.	The sum of first n odd natural numbers is:							
	A	$n^2 - 1$	B	$n^2 + 1$	C	2n	D	n^2
Q.7.	The hypotenuse of a right triangle with its legs of length 3x and 4x is:							
	A	5x	B	7x	C	25x	Q	16x
Q.8.	The possible unit digit in the square root of the number 1764 is:							
	A	4	B	2	C	7	D	1
Q.9.	The square root of $2 \times 2 \times 7 \times 7 \times 5 \times 5$ is:							
	A	14	B	35	C	10	D	70
Q.10	The value of $\sqrt{\frac{11 \times 11 \times 3 \times 3}{25}}$ is:							
	A	$\frac{33}{25}$	B	$\frac{3}{5}$	C	$\frac{33}{5}$	D	$\frac{11}{5}$

Fill in the blanks(1mark)	
Q11.	There are _____ natural numbers between n^2 and $(n + 1)^2$.
Q12.	The square root of 2.53×2.53 is _____.
Q13.	There are _____ perfect square numbers between 90 and 100.
Q14.	The square of 9.5 is _____.
Q15.	The number of digits in the square root of 10404 _____ .
SECTION B (2 marks)	
Q16.	Area of a square is $9801 m^2$. Find the side of the given square.
Q17.	Find the square root of 6241 by division method.
Q18.	Find the smallest square number which is divisible by 4, 6 and 10?
Q19.	The length and breadth of a rectangle are 6cm and 8cm respectively. Find the length of its diagonal.
Q20.	5929 students were sitting in a lecture room in such a manner that there were as many students in the row as there were rows in the lecture room. How many students were there in each row of the lecture room?
SECTION C (4marks)	
Q21.	Find the value of $\sqrt{59.29} - \sqrt{23.04}$
Q22.	Find the smallest whole number multiplied by 1458 to get a perfect square number. Also find the square root of the square number so obtained.
Q23.	Find the least number which must be subtracted from 4230 to make it a perfect square. Also find the square root of the number so obtained.
Q24.	Find the smallest whole number divided by 1620 to get a perfect square number. Also find the square root of the square number so obtained.
Q25.	There are 2028 children arranged for a drill display, in such a manner that the number of rows is equal to the number of columns. How many more children would be required to make the number of rows equal to the number of columns.