INDIAN SCHOOL AL WADI AL KABIR

Class VIII, Mathematics
WORKSHEET-Square and Square Roots (MCQ)
05-10-2021

Multiple Choice questions

Q.1.	The value of $1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19$ is:						
	A	81	B	100	C	20	D	64

Q.2.	Which of the following is not a perfect square?						
	A	625	B	1000	C	6400	D	324

Q.3.	Find the value of $\sqrt{59.29} - \sqrt{23.04}$						
	A	3.6	B	2.9	C	7.0	D	27.6

Q.4.	Area of a square is $9801\ m^2$. Find the side of the given square.						
	A	99m	B	91m	C	81m	D	980m

Q.5.	Find the smallest square number which is divisible by 5, 8 and 10?						
	A	200	B	40	C	400	D	80

Q.6.	The sum of first n odd natural numbers is:						
	A	$n^2 - 1$	B	$n^2 + 1$	C	n^2	D	$2n$

Q.7.	The hypotenuse of a right triangle with its base is 6x and height is 8x is:						
	A	7x	B	10x	C	9x	D	14x

Q8.	The possible unit digit in the square root of the number 1764 is:						
	A	6,4	B	4,8	C	2,8	D	7,4

Q9	The square root of $2 \times 2 \times 3 \times 3 \times 5 \times 5$ is:						
	A	30	B	15	C	60	D	900

Q10	The value of $\sqrt{\dfrac{13 \times 13 \times 5 \times 5}{25}}$ is:							
	A	65	B	13	C	25	D	5

Q11	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?							
	A	29	B	59	C	77	D	73

Q12	Find the smallest whole number by which 1620 should be divided to get a perfect square number.							
	A	5	B	10	C	3	D	9

Q13	Find the least number, which must be added to 4219 to make it a perfect square.							
	A	25	B	6	C	5	D	19

Q14	4096 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row							
	A	66	B	64	C	34	D	94

Q15	Find the smallest whole number multiplied by 1458 to get a perfect square number.							
	A	3	B	7	C	2	D	4

FILL IN THE BLANKS

Q16	There are _____ natural numbers between n^2 and $(n + 1)^2$.
Q17	The square root of 4.53×4.53 is _____.
Q18	There are _____ perfect square numbers between 88 and 90.
Q19	The square of 7.5 is _____.
Q20	The number of digits in the square root of 10404 _____ .

Case study: There are 500 children in a school. For a P.T. drill they have to stand in such a manner that the number of rows is equal to number of columns:

21	How many children would be left out in this arrangement?							
	A	24	B	23	C	16	D	22

22	If the number of rows and number of columns are equal, what will be the number of students in each row in this arrangement?							
	A	23	B	22	C	20	D	44

23	If the distance between each column is 2.56m, what will be the square root of it?							
	A	1.6	B	16	C	2.6	D	1.4

24	If they are buying 1024 probs for the display, what will be the unit digit of the square root it?							
	A	4	B	6	C	2	D	9

25	If the P.T. drill conducted in a square ground of area 2304 m^2 . Find the side of the ground.							
	A	24m	B	28m	C	44m	D	48m

ANSWERS

1.	B	2.	B	3.	B	4.	A
5.	C	6.	C	7.	B	8.	C
9.	A	10.	B	11.	C	12.	A
13.	B	14.	B	15.	C	16.	2n
17.	4.53	18.	No	19.	56.25	20.	3
21.	C	22.	B	23.	A	24.	C
25.	D						