INDIAN SCHOOL AL WADI AL KABIR

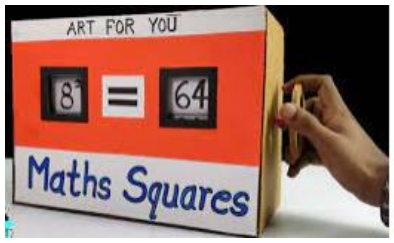
Class VIII, Mathematics

WORKSHEET(OTQ) Squares and Square roots

Multiple Choice Questions

Q1.	If 441 students were arranged in such a way that the number of rows is equal to the number of students in each row, find the number of rows.						
	A	22	B	21	C	11	D	31
Q2.	Which of the following numbers cannot be a perfect square?						
	A	256	B	2704	C	1912	D	6889
Q3.	The square of which of the following numbers will end with 1?						
	A	124	B	365	C	499	D	138
Q4.	Express $\mathbf{17^2}$ as a sum of two consecutive integers.						
	A	132+133	B	143+144	C	141+142	D	144+145
Q5.	Find the sum without adding the numbers: 1 +3+5+7+9+11+13+15+17+19+21+23+25						
	A	169	B	196	C	225	D	256
Q6.	Find the square root of 6400						
	A	40	B	80	C	24	D	800
Q7.	Using property of square numbers, 29 × 31 can be written as						
	A	$\mathbf{30^2 - 1}$	B	$\mathbf{29^2 - 1}$	C	$\mathbf{31^2 - 1}$	D	$\mathbf{30^2}$
Q8.	Which of the following numbers will have 6 in the unit place?						
	A	29^2	B	56^2	C	21^2	D	78^2
Q9.	If x^2=20.25, the find the value of x.						
	A	40.5	B	2.5	C	4.05	D	4.5
Q10.	The square of which of the following numbers will be an even number?						
	A	129	B	450	C	545	D	231

Source based question: Rohan is making a working model for the Math exhibition. He collected square pieces of cardboard to make his model. He had already collected 100 square pieces.



Q11.	If the area of each square piece is 729 sq.mm, find the side of each square.							
	A	23mm	B	27mm	C	17mm	D	13mm
Q12.	He arranged all the 100 square pieces to form the base of the model. Find the area of the base of the model.							
	A	72900 sq.mm	B	2700 sq.mm	C	7290 sq.mm	D	79200 sq.mm
Q13.	If the square pieces are arranged in such a way that the number of rows is equal to the number of columns, find the length of one side of the square base.							
	A	729mm	B	279mm	C	270mm	D	729mm
Q14.	What will be the ones place of the square of 729?							
	A	9	B	8	C	6	D	1
Q15.	How many non-square numbers are there in between 27^2 and 28^2							
	A	56	B	52	C	54	D	64

Meenu and her friends wanted to give a pleasant surprise to their class teacher on teacher's day. They collected rose flowers to make a pattern on the board.The students brought 135 beautiful roses. They arranged the roses in rows and columns so that the number of rows is equal to number of columns.

Q 16.	Find the minimum number of roses required more to make a square pattern using the roses.
Q 17.	How many roses will be left out if the 135 roses are arranged in a square pattern.
Q 18.	They also made a square shaped card of area 90.25 sq.cm. Find the length of each side of the card.
Q 19.	There are 41 students in the class and each student contributed as many Rupees as number of students in the class for the celebration. Find the amount of money collected.
Q 20.	What is the minimum number to be multiplied to 135 to make it a perfect square?

ANSWERS

1.	B)21	2.	C)1912	3.	C)499	4.	D)144+145
5.	A)169	6.	B)80	7.	A)$30^2 - 1$	8.	B)56^2
9.	D)4.5	10.	B)450	11.	B)27mm	12.	A)72900sq.mm
13.	C)270 mm	14.	D)1	15.	C)54	16.	9 roses
17.	14 roses	18.	9.5 cm	19.	₹1681	20.	15