



INDIAN SCHOOL NIZWA - WORKSHEET

Mathematics Chapter 6 Squares and Square roots	
	Name: _____ Class :VIII Sec: _____
1.	Find the number of decimal places in $\sqrt{0.00104976}$.
2.	Find the square root of 7056 by using prime factorization method
3.	Find the smallest number by which 9408 must be divided so that it becomes a perfect square. Also find the square root of the perfect square so obtained.
4.	Find the smallest square number divisible by each one of the numbers 6, 9, 15 and 20.
5.	Find the square root using division method: a) 8281 b) 77.44
6.	1100 students are to be arranged for a mass drill. The Physical Education teacher wants to arrange them in equal number of rows and columns. While doing so how many students are left out?
7.	Find the least number that must be added to 59045 to make it a perfect square.
8.	One of the members of Pythagorean triplet is 28, find the other members of Pythagorean triplet.
9.	What is the least number to be multiplied with $(3^5 \times 5^9 \times 2 \times 7)$ to make it a perfect square?
10.	A ladder 13 m long rests against a vertical wall. If the foot of the ladder is 12 m away from the wall and the ladder just reaches the top of the wall, how high is the wall?
11.	The area of a rectangular field whose length is twice its breadth is 2450 m^2 . Find the perimeter of the field.
12.	Number of non-perfect square numbers between 345^2 and 346^2 is _____
13.	Possible digits in the unit's place in the $\sqrt{363609}$ are _____.
14.	The least number to be subtracted from 490 to make it perfect square is _____
15.	If $\sqrt{29.16} = 5.4$, then find the value of $(\sqrt{0.2916} + \sqrt{0.002916} + \sqrt{291600})$
16.	Case study based question: Students of class VIII-D section of the 'Sunrise School' wish their teachers on the occasion of Teacher's Day by giving them a collage of 5 memorable photos which they had clicked during the session. They choose a multi-coloured square sheet of paper for collage. A side of that multi-coloured sheet measures 13.3 cm. Answer the following questions based on the above information. (i) Find the area of each photo. (ii) If the cost of the multi-coloured square sheet of paper is ₹55.25 and the cost of one photo is ₹125.75, find the expenses they incurred in making the collage.