



INDIAN SCHOOL NIZWA - WORKSHEET

MATHEMATICS

CH: 6 Square And Square Roots

Ch: 7 Cube And Cube Roots

Name: _____ Date: _____ Class: VIII Sec: ____

1. The square of an odd number will be _____ number.
2. No square number is negative [YES/ NO]
3. _____ number of natural numbers lie in between 99^2 and 100^2 .
4. Find the square root of $\frac{64}{144}$
5. Express 19^2 as the sum of two consecutive natural numbers
6. Find the square root of 7056 by using prime factorization method
7. 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.
8. Find the smallest square number divisible by each one of the numbers 8, 9 and 10.
9. Find the square root using division method
 - a) 8281
 - b) 77.44
10. Find the least number that must be added to 4931 to make it a perfect square. And find the square root of the number so obtained.
11. 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 ?
12. Find the cube root of -117649 by prime factorisation method.



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13. Find the cube root of $2\frac{93}{125}$.
14. Find the cube root of 0.008
15. The volume of a cube is 9261000cm^3 . Find the side of the cube.
16. Find $\sqrt[3]{392} \times \sqrt[3]{448}$.
17. Without using prime factorisation, estimate the cube root of the following : 24389.
18. How many cubes of sides 2 cm can be packed in a cubical box with inner side equal to 4 cm?
19. The surface area of a cube is 216sq. cm . what is its volume?
(Hint: Surface area of a cube $=6(\text{side})^2$).