



ASSIGNMENT-2



Marks Obtained: _____

Student's Name: _____ Section: _____

Roll Number: _____ Date: _____

A. Fill in the blanks.

1. There are perfect squares between 1 and 100.
2. The least number by which 125 be multiplied to make it a perfect square is
3. Given that $\sqrt{2025} = 45$, the value of $\sqrt{2025} + \sqrt{20.25}$ is
4. The cube root of 512×64 is
5. There are perfect cubes between 1 and 500.

B. Label True or False.

1. A number having 7 at its ones place will have 1 at the units place of its square.
2. The square root of a perfect square of n digits will have $\left(\frac{n+1}{2}\right)$ digits if n is odd.
3. The sum of successive odd numbers 1, 3, 5, 7, 9, 11, 13 and 15 is 82.
4. For any integer m , $m^2 < m^3$
5. Cubes of the numbers ending with the digits 0, 1, 4, 5, 6 and 9 end with digits 0, 1, 4, 5, 6 and 9 respectively.

C. Match the following.

Column I	Column II
1. No. of natural numbers between 52 and 62	(a) 13
2. No. of zeros in the square of 500	(b) 729
3. Sum of first 10 odd natural numbers	(c) 10
4. Cube of 3rd multiple of 3	(d) 4
5. Cube root of 2197	(e) 100

D. Do as directed.

1. Find the smallest square number divisible by each one of the numbers 10, 12 and 15.
2. Three numbers are in the ratio 2 : 3 : 5 and the sum of their cubes is 10240. Find the numbers.
3. The difference between two perfect cubes is 279. If the cube root of the smaller of the two numbers is 4, find the cube root of the larger number.