

SQUARE AND SQUARE ROOTS

Q1. What is the least number that should be subtracted from 1385 to get a perfect square? Also find the square root of the perfect square formed.

Q2. Using prime factorisation, find the square roots of

i) 11025

ii) 4761

Q3. Three numbers are in the ratio 2:3:4 and sum of their cubes is 0.334125. Find the numbers.

Q4. 8649 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?

Q5. A perfect square number has four digits, none of which is zero. The digits from left to right have values that are : even,even,odd,even. Find the number.

Q6. A General wishes to draw up his 7500 soldiers in the form of a square. After arranging, he found out that some of them are left out. How many soldiers were left out?

Q7. Difference of two perfect cubes is 189. If the cube root of the smaller of the two numbers is 3, find the cube root of the larger number.

Q8. Find the smallest square number divisible by each one of the numbers 8,9 and 10.