

Board – ICSE

Class –VIII

Topic – Square and Square Root

- Find the square roots of the following numbers by the Prime Factorization Method.
 - 9604
 - 1764
- For each of the following numbers, find the smallest whole number by which it should be multiplied so as to get a perfect square number. Also find the square root of the square number so obtained.
 - 1458
 - 2028
- The students of Class VIII of a school donated Rs 2401 in all, for Prime Minister's National Relief Fund. Each student donated as many rupees as the number of students in the class. Find the number of students in the class.
- Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.
- Find the smallest square number that is divisible by each of the numbers 4, 9 and 10.
- Is 2352 a perfect square? If not, find the smallest number by which 2352 must be multiplied so that the product is a perfect square. Find the square root of new number.
- 10404 students are sitting in a lecture room in such a manner that there are as many students in a row as there are rows in a lecture room. How many students are there in each row of a lecture room?
- Evaluate: $\sqrt{16384}$ by long division method
- Evaluate: $\sqrt{0.4225}$ by long division method
- Find the square root of $1\frac{56}{169}$

Answer

- 98
 - 42
- multiply by 2
 - multiply by 3
- There are 49 students, each contributing 49 rupees.
- Required Number = $180 \times 3 \times 5 = 2700$
- Required number = $180 \times 5 = 900$
- Multiply by 3 and Square root is 84
- 102
- 128
- 0.65
- $1\frac{2}{13}$