1. Find the simplest answer for $\sqrt{(9a^4 b^8)}$

2. Find value of: (i) $\sqrt{55} \times \sqrt{220}$ (ii) $\sqrt{0.25} \times \sqrt{0.09}$ (iii) $\sqrt{33.64}$

(iv) $\sqrt{0.4489}$ (v) $\sqrt{\dfrac{289}{361}}$ (vi) $\sqrt{1\dfrac{7}{9}}$

3. Find x if $\dfrac{x}{16} = \sqrt{\dfrac{9}{16}}$

4. The area of a square field is 4225 m². If a girl cycles along its boundary, how much distance she will be able to cover if she covers the boundary twice.

5. For the international yoga day, yoga teacher has to arrange 1024 students in such a way that each row has as many students as the number of rows. Find the number of students in each row.

6. 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.

7. 2025 plants are to be planted in a garden in such a way that each row contains as many plants as the number of rows. Find the number of rows and the number of plants in each row.

8. Find the smallest square number that is divisible by each of the numbers 4, 9 and 10.

9. Find the smallest square number that is divisible by each of the numbers 8, 15 and 20.

10. Find the number of digits in the square root of each of the following numbers (without any calculation)

(i) 64   (ii) 144   (iii) 4489   (iv) 27225   (v) 390625

Note: [If there is even number of digits in square then number of digits in square root = $\dfrac{N}{2}$

and If there is odd number of digits in square then number of digits in square root $\dfrac{N+1}{2}$