Example 7: Find the smallest number by which 9408 must be divided so that the quotient is a perfect square. Find the square root of the quotient.

Example 8: Find the smallest square number which is divisible by each of the numbers 6, 9 and 15.

8. 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.

3. Find the square roots of 100 and 169 by the method of repeated subtraction.

4. Find the square roots of the following numbers by the Prime Factorisation Method.

(v) 7744

(ix) 529

3. The squares of which of the following would be odd numbers?

(i) 431 (ii) 2826 (iii) 7779 (iv) 82004

24. Given that $\sqrt{4096} = 64$, the value of $\sqrt{4096} + \sqrt{40.96}$ is

(a) 74 (b) 60.4 (c) 64.4 (d) 70.4

25. There are _____ perfect squares between 1 and 100.

27. The units digit in the square of 1294 is _____.

28. The square of 500 will have _____ zeroes.

30. The square root of 24025 will have _____ digits.

100. Write two Pythagorean triplets each having one of the numbers as 5.