Some questions for practice

1. Find the square root of 12.25.

2. Estimate the value of the following to the nearest whole number.

    (i) 80   (ii) 1000   (iii) 350   (iv) 500

3. Without calculating square roots, find the number of digits in the square root of the following numbers.

    (i) 25600   (ii) 100000000   (iii) 36864   (iv) 64
    (v) 144   (vi) 4489   (vii) 27225   (viii) 390625

4. Area of a square plot is 2304 m^2. Find the side of the square plot.

5. Find the length of the side of a square whose area is 441 m^2.

6. There are 2401 students in a school. P.T. teacher wants them to stand in rows and columns such that the number of rows is equal to the number of columns. Find the number of rows.

7. Find the square root of :   (i) 729   (ii) 1296

8. Find the least number that must be added to 1300 so as to get a perfect square. Also find the square root of the perfect square.

9. Find the square root of each of the following numbers by Division method.

    (i) 2304   (ii) 4489   (iii) 3481   (iv) 529
    (v) 3249   (vi) 1369   (vii) 5776   (viii) 7921
    (ix) 576   (x) 1024   (xi) 3136   (xii) 900

10. Find the square root of the following decimal numbers.

   (i) 2.56   (ii) 7.29   (iii) 51.84   (iv) 42.25   (v) 31.36

11. Find the least number which must be subtracted from each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained.

   (i) 402   (ii) 1989   (iii) 3250   (iv) 825   (v) 4000

12. Find the least number which must be added to each of the following numbers so as to get a perfect square. Also find the square root of the perfect square so obtained.

   (i) 525   (ii) 1750   (iii) 252   (iv) 1825   (v) 6412

13. In a right triangle ABC, $\angle$ B = 90°.

   (a) If AB = 6 cm, BC = 8 cm, find AC

   (b) (b) If AC = 13 cm, BC = 5 cm, find AB

14. A gardener has 1000 plants. He wants to plant these in such a way that the number of rows and the number of columns remain same. Find the minimum number of plants he needs more for this.

15. There are 500 children in a school. For a P.T. drill they have to stand in such a manner that the number of rows is equal to number of columns. How many children would be left out in this arrange.

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