
Square and Square Roots

1-Which of the following numbers are perfect squares?

- (a)3364 (b)4489 (c)4358

2-Using the property of squares , find the value of the following.

- (a) $24^2 - 23^2$ (b) $50^2 - 49^2$ (c) $105^2 - 104^2$

3-Without adding find the sum.

- (a) $1+3+5+7+9$

- (b) $1+3+5+7+9+11+13+15+17+19+21+23+$

4-Find the square root of the following by prime factorisation method.

- (a)1024 (b)8836 (c)8464

5-Find the smallest number by which 2475 must be multiplied to get a perfect square .

6-4096 soldiers are arranged in an auditorium in such a manner that there are as many soldiers in a row as there are rows in the auditorium.How many rows are there in the auditorium?

7-Find the least perfect square exactly divisible by each one of the numbers 4, 5, 10.

8-Find the least square number exactly divisible by each one of the numbers 6, 9, 10, 15 and 20 .

9-Find the least number which must be added to 4215 to make it a perfect square.

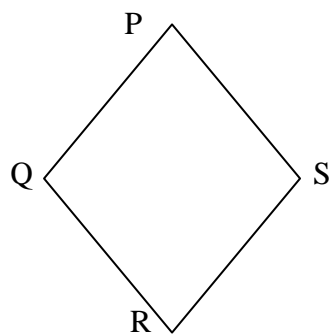
10-Find the lest number which should be subtracted from 984 to make it a perfect square .Also find the square root of this perfect square.

11-The area of the square field is 8464m^2 . A man takes 3 rounds of this field. Find the distance covered by him.

12-Find the square root of the following decimal numbers.

- (a)72.25 (b)86.49 (c)75.69 (d)9.61 (e)0.16

13-



PQRS is a rhombus. $PQ=12\text{cm}$ $QS=16\text{cm}$.

Find the side of the rhombus.

14-Express 81 as the sum of 9 odd numbers.

15-How many numbers lie between the squares of the following numbers?

(a)15 and 16 (b)56 and 57

16-Express the following as the sum of two consecutive integers.

(a) 21^2 (b) 13^2 (c) 19^2

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