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MM 25

Time 1h

1 Mark Each

1. A square number is _____
2. Number of non square numbers between two consecutive square numbers is ____
3. Sum of first p odd numbers is _____
4. Express 13^2 as the sum of two consecutive integers.
5. What will be the unit digit of the square of 3873?
6. Why 2332 is not perfect square ?

2 Marks Each

7. How many numbers lie between squares of 100 and 101 ?
8. Find the square 49 without actual multiplication.

3 Marks Each

9. Write a Pythagorean triplet whose smallest member is 9.
10. Find all Pythagorean triplets in which one member is 12.
11. Is 14112 a perfect square? If not, find the smallest multiple of 14112 which is a perfect square. Find the square root of the new number.
12. Find the smallest square number that is divisible by each of the numbers 4, 9 and 10.
13. Find the least number that must be subtracted from 6891 so as to get a perfect square. Also find the square root of the perfect square.

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