

SATISH CHANDRA MEMORIAL SCHOOL

Class: VIII Ch : 6 (Squares & Square Roots)

Worksheet -2

-
1. Is 2367 is a perfect square? Justify.
 2. Show 6292 is a perfect square.
 3. Fill in the blanks:
 - a) The square of an even number is _____
 - b) The square of a proper fraction is _____ than the given fraction.
 - c) n^2 = the sum of first n _____ natural numbers.
 - d) The square of 0.1 is _____
 - e) If two members of a Pythagorean triplet are $2n^2$ and $n^2 - 1$, then the third member is _____
 4. Find the square root of the following by prime factorisation method:
 - a) 1764
 - b) 4225
 - c) 441
 - d) 11025
 - e) 225
 5. By what least number should 3675 be multiplied to get a perfect square number? Also find the number whose square is the new number.
 6. By what least number should 8820 be divided to get a perfect square number? Also find the number whose square is the new number.
 7. Find the largest number of two digits which is a perfect square.
 8. Find the Pythagorean triplet whose smallest number is 12.
 9. Find the Pythagorean triplet whose smallest number is 18.
 10. Find the Pythagorean triplet whose smallest number is 32.