Chapter 6

Squares & Square Roots

- Between the squares of any two consecutive numbers ‘n’ and (n + 1) they are ‘2n’ numbers, which are not squares.

Consecutive square numbers	Non perfect square numbers between two consecutive square numbers	Number of non – perfect square numbers
$1^2 = 1, 2^2 = 4$	2, 3 (2 number lies between 1 and 4)	2 x 1 = 2 (2 x Base of first number 1)
$2^2 = 1, 3^2 = 9$	5,6,7,8 (4 numbers lies between 4 and 9)	2 x 2 = 4 (2 x Base of first number 2)
$3^2 = 9, 2^2 = 16$	10,11,12,13,14,15 (6 numbers lies between 9 and 16)	2 x 3 = 6 (2 x Base of first number 3)

- It 1 is added to the product of two consecutive odd/even natural numbers. It is equal to square of the only even/odd natural number between them.