- A Natural number x is a perfect square if there exists a natural number y such that $x=y^2$.
- A number ending with 2, 3, 7 or 8 is never a perfect square.
- The number of zeros at the end of a perfect square is never odd.
- Squares of even numbers are always even.
- Squares of odd numbers are always odd.
- Sum of first $\boldsymbol{n}$ natural even numbers=$\boldsymbol{n(n+1)}$
- Sum of first $\boldsymbol{n}$ natural odd numbers=$\boldsymbol{n^2}$.
- The square of a natural number other than 1 is either a multiple of 3 or exceeds a multiple of 3 by 1.
- For any number $\boldsymbol{n}$ greater than 1, $(\boldsymbol{2n, n^2-1, n^2+1})$ is a Pythagorean triplet.