

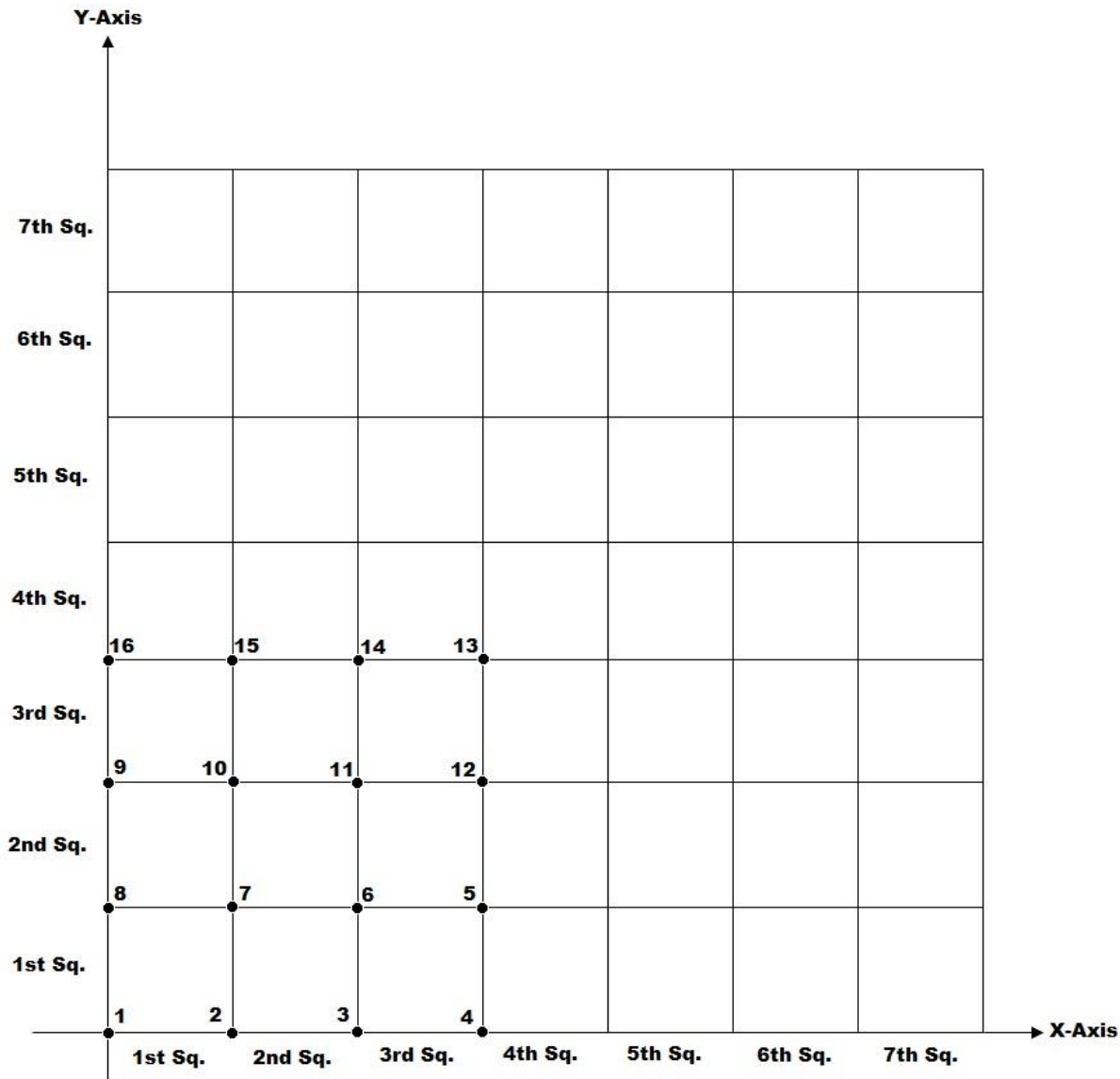
Square Through Squares

Squaring through points on Squares

A new formula is derived by Piyush Kumar Goyal known as “Square Through Squares”.

Formula is mention below:

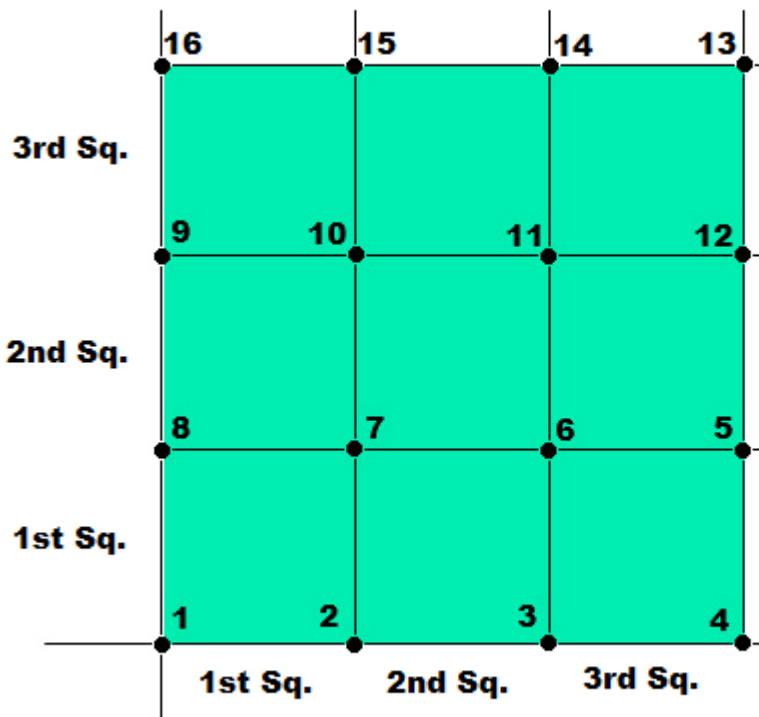
$$N^2 = [(N-2)^{\text{th}} \text{ Sq. on Y-Axis}] * [3^{\text{rd}} \text{ Sq. on X-Axis}] + [(N-3)^{\text{th}} \text{ Sq. on Y-Axis}] * [(N-3)^{\text{th}} \text{ Sq. on X-Axis}]$$



Let's take some examples:

1. Square of 5

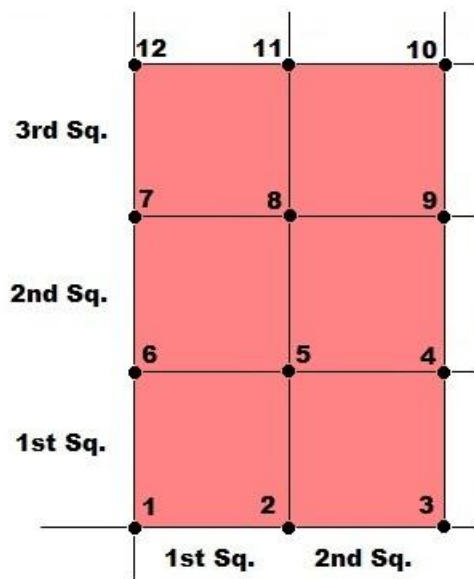
$$5^2 = [(5-2)^{\text{th}} \text{ Sq. on Y-Axis}] * [3^{\text{rd}} \text{ Sq. on X-Axis}] + [(5-3)^{\text{th}} \text{ Sq. on Y-Axis}] * [(5-3)^{\text{th}} \text{ Sq. on X-Axis}] \\ = [3^{\text{rd}} \text{ Sq. on Y-Axis}] * [3^{\text{rd}} \text{ Sq. on X-Axis}] + [2^{\text{nd}} \text{ Sq. on Y-Axis}] * [2^{\text{nd}} \text{ Sq. on X-Axis}]$$



$$5^2 = (3^{\text{rd}} \text{ Sq.} * 3^{\text{rd}} \text{ Sq.}) + (2^{\text{nd}} \text{ Sq.} * 2^{\text{nd}} \text{ Sq.}) \\ = 16 \text{ points} + 9 \text{ points} \\ = 25 \text{ points}$$

2. Square of 4

$$\begin{aligned} 4^2 &= [(4-2)^{\text{th}} \text{ Sq. on Y-Axis}] * [3^{\text{rd}} \text{ Sq. on X-Axis}] + [(4-3)^{\text{th}} \text{ Sq. on Y-Axis}] * [(4-3)^{\text{th}} \text{ Sq. on X-Axis}] \\ &= [2^{\text{nd}} \text{ Sq. on Y-Axis}] * [3^{\text{rd}} \text{ Sq. on X-Axis}] + [1^{\text{st}} \text{ Sq. on Y-Axis}] * [1^{\text{st}} \text{ Sq. on X-Axis}] \end{aligned}$$



$$\begin{aligned} 4^2 &= (2^{\text{nd}} \text{ Sq.} * 3^{\text{rd}} \text{ Sq.}) + (1^{\text{st}} \text{ Sq.} * 1^{\text{st}} \text{ Sq.}) \\ &= 12 \text{ points} + 4 \text{ points} \\ &= 16 \text{ points} \end{aligned}$$