



Number of levels (n)	Combinations of pyramids
1	1
2	2
3	6
4	12
5	20
6	30

The Aztec pyramids were made by layers of stone stacked on top of each other.

My maths investigation was to see how many combinations there were to make a 'pyramid' every time I added on a layer.

I started by using multilink, but then I started to do it systematically and worked out the rule. The amount of layers is n and the rule is $n \times (n-1) = \text{combination}$

Or,

$$n^2 - n = \text{combination.}$$

i know how to get the combination but why dose it work?

please coment