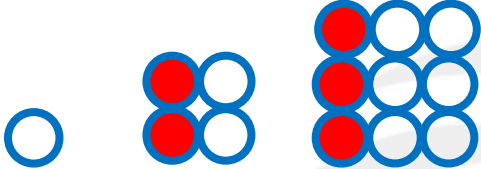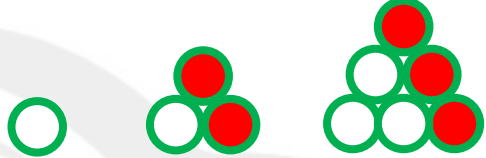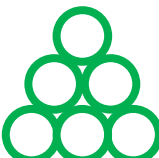# Square & Triangular Numbers

Square Numbers	Triangular Numbers
A square number is a number that can be shown using a **square pattern** of dots.	A triangular number is a number that can be shown using a **triangular pattern** of dots

1	4	9	1	3	6
$1^2 = 1$	$2^2 = 4$	$3^3 = 9$	$1 + 0 = 1$	$1 + 2 = 3$	$1 + 2 + 3 = 6$

Instructions: Determine whether the numbers below are square or triangular then fill in the empty boxes of the table below.

	Number	Pattern	Draw
1	4	$2^2 = 2 \times 2$	
2	6	$1 + 2 + 3 = 6$	
3	9		

Number	Pattern	Draw
4	10	
5	16	
6	15	

Why are square and triangular numbers helpful?

EXAMPLE: You want to make a stack of 6 logs. How many rows can you have if you want to make a pyramid?

ANSWER: You can have 3 rows. The third triangular number is 6 and it has 3 rows.