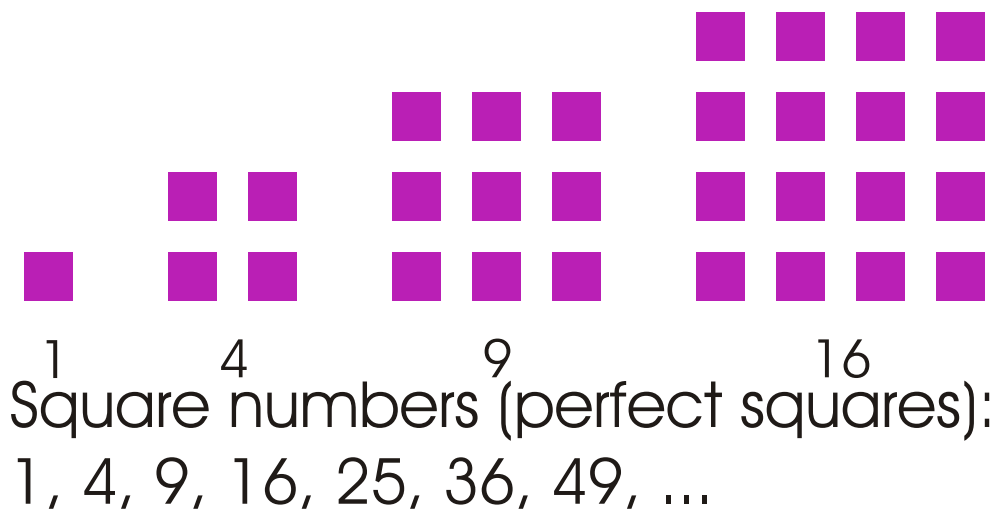
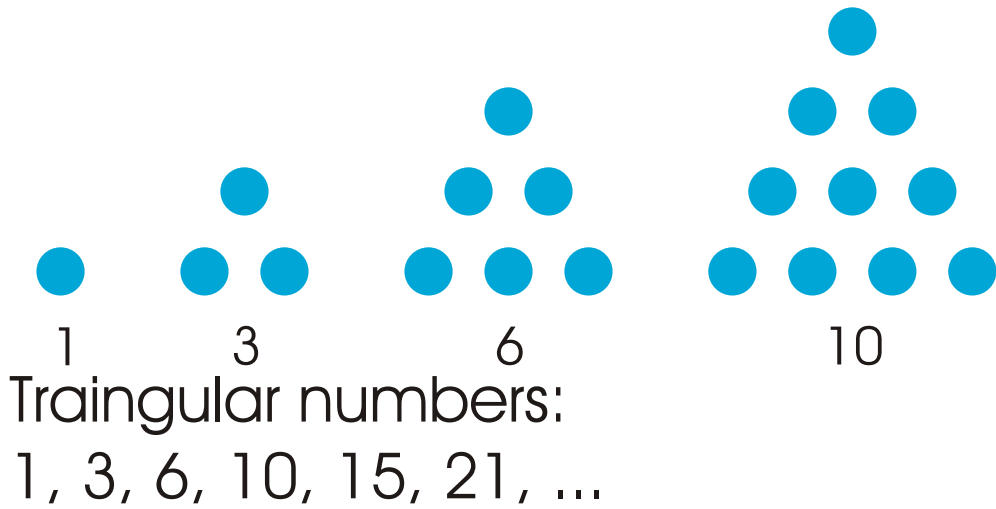


# Figurate Numbers and Perfect Squares

A figurate number is a number that can be represented by a simple shape such as a triangle or a square. Figurate numbers are formed using simple shapes such as circles, squares, stars, etc.



# Figurate Numbers and Perfect Squares

The numbers  $\{1, 7, 19, 37, \dots\}$  are called a centered hexagonal numbers. Can you figure out the pattern? They are related to the triangular numbers, can you see how?

visit the link below to see an explanation.  
[http://en.wikipedia.org/wiki/Centered\\_hexagonal\\_number](http://en.wikipedia.org/wiki/Centered_hexagonal_number)

