



LOGIFACES
METHODOLOGY

Erasmus+

STUDENT
Logifaces

2019-1-HU01-KA201-0612722019-1

309 - Triangular Square Number



MATHS / SEQUENCES

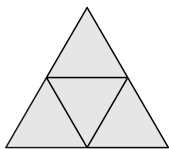
Name:

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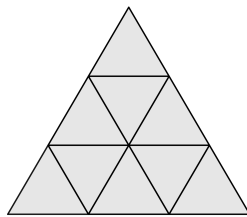
Tools: one 16 pcs Set / 1-2 student

DESCRIPTION

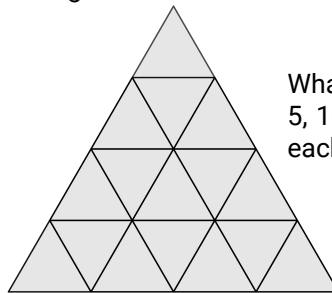
Observe the following: if large triangles are built from congruent triangles, the large triangle with 2 small triangles on each side consists of 4 small triangles, the large triangle with 3 small triangles on each side consists of 9 small triangles, the large triangle with 4 small triangles on each side consists of 16 small triangles (see the figures below).



$n = 2$



$n = 3$



$n = 4$

What can be said about a large triangle with 5, 10, 100, or, in general, n small triangles on each side? Prove the resulting formula!

SOLUTION(S)