| Name:

Date:

Tools: one Logifaces Set / class | **618 - Variety with Formulas**

MATHS / COMBINATORICS | Erasmus+
STUDENT
Logifaces

2019-1-HU01-KA201-0612722019-1 |

DESCRIPTION

Logifaces blocks have 3 possible heights: 1, 2 and 3 standard units. In exercise 617 - Can you Match them? We counted all the different Logifaces blocks that are possible with these restraints.

Now students consider the number of possible different Logifaces blocks that have the following possible heights (but that are still triangular based prisms or truncated prisms):

LEVEL 1   1, 2, 3 and 4 standard units

LEVEL 2   1, 2, 3, …, 10 standard units

LEVEL 3   1, 2, 3, …, n standard units

Hint: as a Level 0 exercise first consider the original case, with 1, 2 or 3 standard units as heights

SOLUTION(S)