



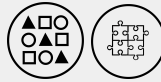
LOGIFACES  
METHODOLOGY

Erasmus+

**STUDENT**  
Logifaces

2019-1-HU01-KA201-0612722019-1

## 608 - Four Block Triangles



**MATHS / COMBINATORICS**

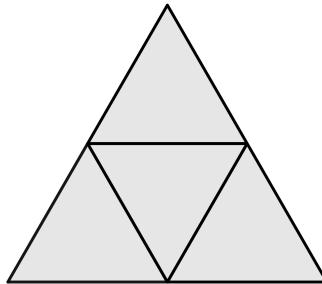
Name:

Date:

Tools: one 9 pcs Set / 1-4 student

### DESCRIPTION

Using the 9 pcs Set, students find the number of possibilities of arranging blocks in the form shown in the diagram with a continuous surface. (We say that two arrangements are the same, if they can be rotated into each other.)



- LEVEL 1 Let block 112, 113 or 122 be in the middle. How many arrangements are there with this fixed middle block?
- LEVEL 2 Let block 123 or 132 be in the middle. How many arrangements are there with this fixed middle block?
- LEVEL 3 Count the number of arrangements for all possible middle blocks.

SOLUTION(S)