

Grades 7-8 (AS), 9-12 (AS)

Duration: 20 min

Tools: one Logifaces Set / 3-5 students

Individual / Pair work

Keywords: Logical thinking, Cases, Nets

510 - Nets of Prism



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER

Logifaces

2019-1-HU01-KA201-0612722019-1

DESCRIPTION

LEVEL 1 Students consider the number of ways the figure below can be supplemented to obtain one of the nets of block 222. Two nets are different if they cannot be transformed into each other by reflection or rotation. (This can be told to students as "you can not distinguish the nets after cutting them out of the paper").

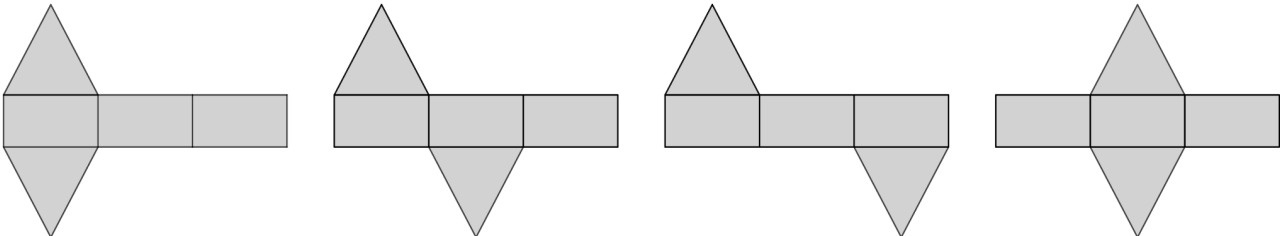


LEVEL 2 Students draw all the different nets of the block 222.

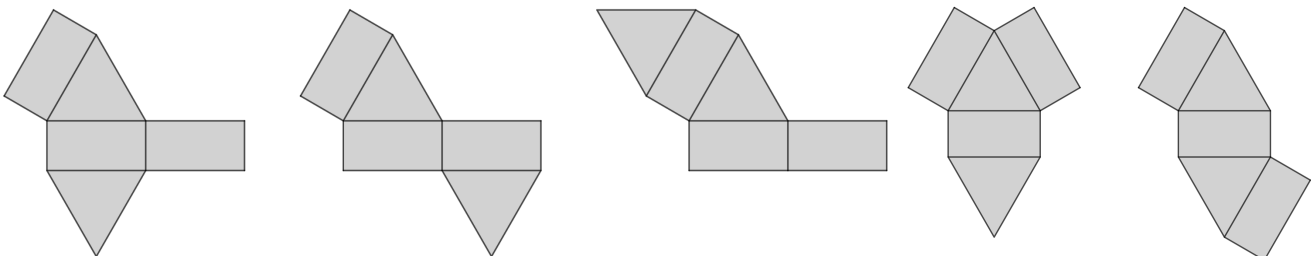
SOLUTIONS / EXAMPLES

Students can find a template for 9 pcs Set and 16 pcs Set that includes all the faces of each piece in exercise [503 - Matching Faces](#). They can cut out the polygons of the template and use them to find all of the nets.

LEVEL 1 There are 4 nets. The symmetry by reflection or rotation can be discussed during the solution.



LEVEL 2 Block 222 has 9 nets: there are 4 nets found in the Level 1 exercise, and 5 other nets, see below.



PRIOR KNOWLEDGE

Net of a polyhedron

RECOMMENDATIONS / COMMENTS

This exercise can be used to develop spatial vision and systematic thinking.

The more difficult exercise [511 - Logifaces Nets](#) is recommended after this exercise or for differentiation.