

Grades 7-8 (A), 9-12 (S)

Duration: 20-45 min

Tools: one Logifaces Set / 4-8 students, GeoGebra

Individual work

Keywords: Polyhedra, Polygons, Nets, GeoGebra

508 - Net with GeoGebra



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER

Logifaces

2019-1-HU01-KA201-0612722019-1

DESCRIPTION

Students choose a block from the set and draw a net of the block using GeoGebra.

SOLUTIONS/EXAMPLES:

One possible net for each block is shown in the figure below.

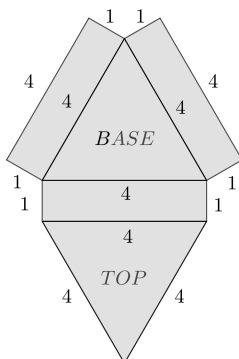
GUIDELINES FOR TEACHERS:

It is recommended to use this type of net, as starting from the base triangle and knowing the lengths of the vertical edges suffices to draw and measure every edge.

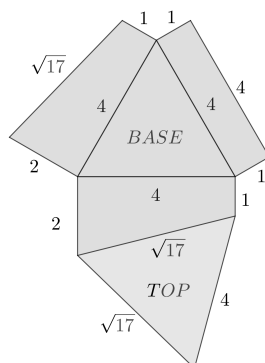
The net of this type can be drawn in GeoGebra using the following steps:

- Draw the base triangle by first drawing a segment of length 5, then using the Compass tool to find the third vertex.
- Draw the vertical faces by using the Perpendicular line tool to draw the lines of the vertical edges, then find their endpoints using the Compass tool.
- Draw the top base by using the Compass tool to find the third vertex of the triangle.

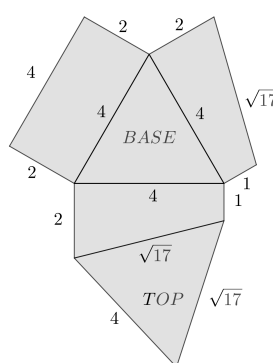
111



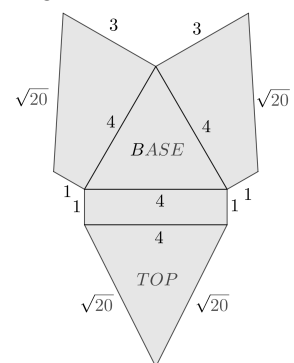
112



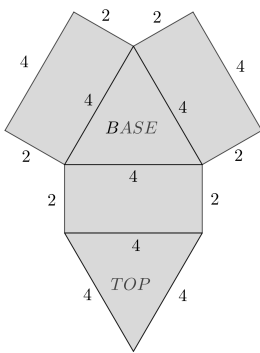
212



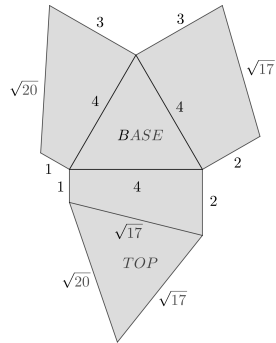
113



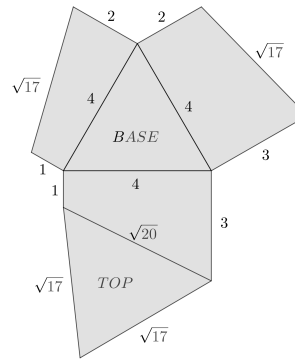
222



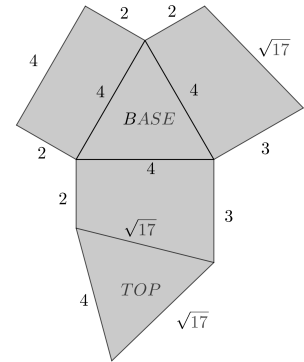
123



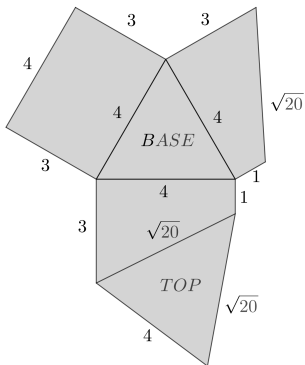
132



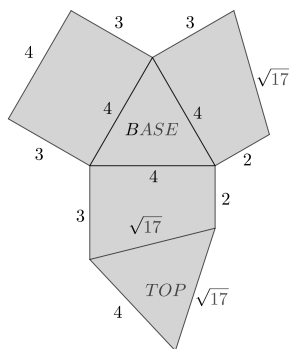
232



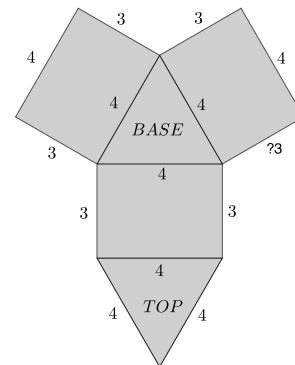
313



323



333



PRIOR KNOWLEDGE

Basics of GeoGebra: segment, perpendicular lines, compass

RECOMMENDATIONS/COMMENTS:

Exercise [505 - Net Drawing](#) is recommended for drawing the nets using the blocks or the steps of geometric constructions.

See exercise [510 - Nets of Prism](#) and [511 - Logifaces Nets](#) for the other possible net types.