

Grades 5-8 (S), 9-12 (S)

Duration: 30 min

Tools: one Logifaces Set / student,
Surface maze

Individual work

Keywords: Surface, Game

514 - Surface Area Game



MATHS / 3D GEOMETRY



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER
Logifaces

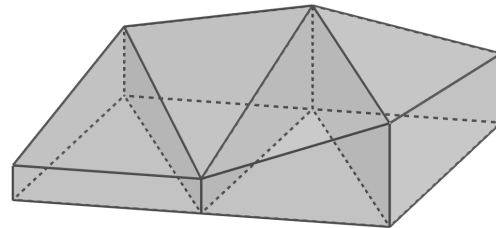
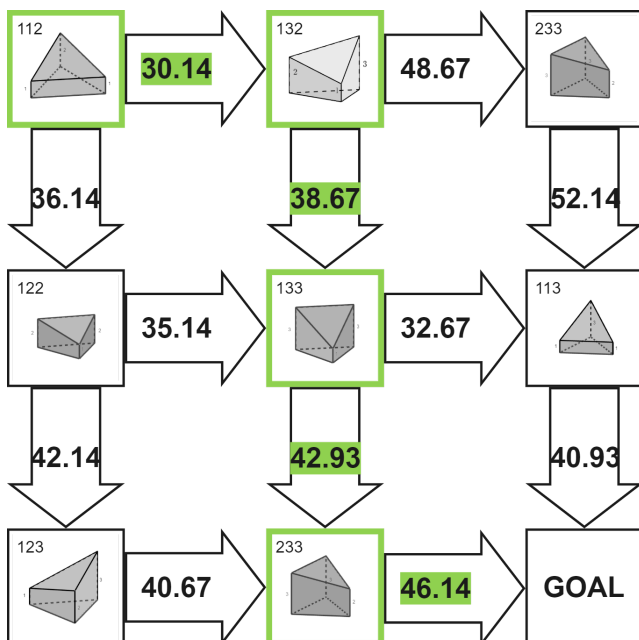
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DESCRIPTION

Students get a paper with Logifaces prisms and calculated surface area values on the arrows. They calculate the surface areas using the standard units and follow the arrows with the right answers to get the blocks and the right order to build a continuous surface at the end of the maze. A possible Surface maze can be found at the end of the exercise.

SOLUTIONS / EXAMPLES

Below we can see the solution to the example Surface maze. By following the maze students get a continuous surface as it is shown in the Figure below. The continuous Logifaces surface consists of blocks 112, 123, 133 and 233 in this order.



PRIOR KNOWLEDGE

Surface area of prisms and truncated prisms

RECOMMENDATIONS / COMMENTS

We recommend to first see exercise [513 - Surface Area Calculation](#), it contains the surface area calculations for all blocks.

SURFACE MAZE

Calculate the surface areas using the standard units and follow the arrows with the right answers to get the blocks and the right order to build a continuous surface at the end of the maze.

