

Grades 3-4 (S) 4-8 (S) 9-12 (S)

Duration: 10-15 min

Tools: 4-5 Logifaces blocks / group

Group work

Keywords: Odd one out

205 - Odd One Out Game



MATHS / LOGIC



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER
Logifaces

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DESCRIPTION

Students form groups of 3 or 4. Each group gets 4-5 different Logifaces blocks. Taking turns the group members choose a Logifaces block and explain why they think it's an odd one out. Every choice is acceptable if reasonably explained. The game will continue until no one can choose another odd one out.

SOLUTIONS / EXAMPLES

Possible odd one outs when the group gets blocks 222, 133, 113 and 132.

block 222 is the only block:

with vertical edges of the same height.

which is a prism.

where the top face is an equilateral triangle.

where the top and the base faces are congruent.

block 113 is the only block:

which has a rectangle as a vertical face with side lengths 1 and 4 units.

where two vertical edges are 1 unit long.

where the sum of the vertical edges is 5 units.

block 133 is the only block:

which has a rectangle as a vertical face with side lengths 3 and 4 units.

where two vertical edges are 3 units long.

where the sum of the vertical edges is 7 units.

block 132 is the only block:

with vertical edges of three different lengths.

with three different trapezium vertical faces.

where the top face is a scalene triangle.

PRIOR KNOWLEDGE None

RECOMMENDATIONS / COMMENTS

It is an exercise to improve logical thinking since every solution is accepted when supported by an explanation. Students are encouraged to find as many solutions as they can. It can be an introductory exercise to get familiar with the Logifaces Set or it can be done when students already got through other Logifaces exercises. In that case they can consider a lot more properties to find odd one outs.