

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

Duration: 15-20 min

Tools: one Logifaces Set / pair

Pair work

Keywords: Coding

209 - Create and Code



MATHS / LOGIC



LOGIFACES
METHODOLOGY
Erasmus+

TEACHER
Logifaces

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DESCRIPTION

Each pair builds a construction. They need to make a drawing on a piece of paper that will guide another pair to build the same construction without seeing theirs (they may take a mental or real photo and ruin the construction after creating the drawing).

SOLUTIONS / EXAMPLES

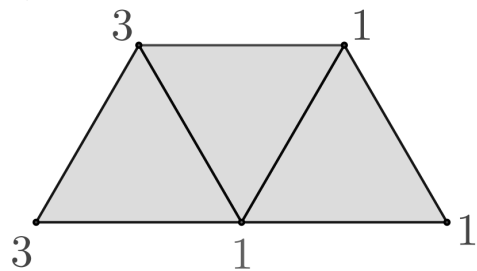
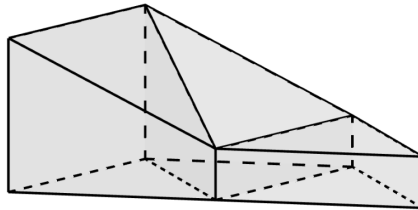
Possible codes:

Easier codes:

- Draw the construction from above, and at each triangle vertex write a number for the height.
- Draw the construction from different angles (from above and 3-4 sides).

More advanced:

- Axonometry
- Descriptive geometry



PRIOR KNOWLEDGE

None

RECOMMENDATIONS / COMMENTS

We recommend starting with basic constructions, but later students can also create more complex ones (e.g. stacking pieces on top of each other).

The teacher can leave students complete freedom in designing their codes, or they can ask them to use a specific one (we recommend starting with free coding first).

The following tasks show examples of encoding with graphs: [211 - Graph from Shape](#) and [212 - Shape from Graph](#).