



<p>Name:</p> <p>Date:</p> <p>Tools: one 16 pcs Set / 1-2 student</p>	<p>603 - Pairing 16pcs</p>  <p><b>MATHS / COMBINATORICS</b></p>	 <p>LOGIFACES METHODOLOGY</p> <p>Erasmus+</p> <p><b>STUDENT</b> Logifaces</p> <p>2019-1-HU01-KA201-0612722019-1</p>
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**DESCRIPTION**

Students arrange the blocks of the 16 pcs Set into pairs to form regular prisms. By measuring and comparing edges and sides, students connect two Logifaces blocks and compose regular prisms.

Students consider the number of possible pairings of the blocks. (Two pairings are different, if there is at least one pair present in one pairing and not present in the other.)

- LEVEL 1      Students first find two pairs that form regular prisms 555, then a pair that forms a regular prism 333. Arranging the remaining blocks into pairs gives one possible pairing of the blocks.
- LEVEL 2      Students find a pairing with only one pair that forms a regular prism 555 and without a pair that forms the regular 333. This gives another possible pairing of the blocks.
- LEVEL 3      Students find the blocks that can only be paired with one other block then find the possible pairings of the remaining blocks.
- LEVEL 4      Students find all the possible pairings without the assistance given in the Level 1-3 exercises.

**SOLUTION(S)**