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

Duration: 10 min

Tools: one Logifaces Set / 2-3 students

Individual work

Keywords: Triangle, Rectangle, Trapezium, Area

408 - Area Formulas of Polygons

MATHS / 2D GEOMETRY

LOGIFACES METHODOLOGY

Erasmus+

TEACHER

Logifaces

2019-1-HU01-KA201-0612722019-1

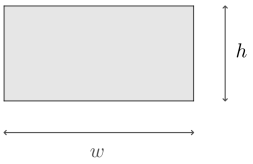
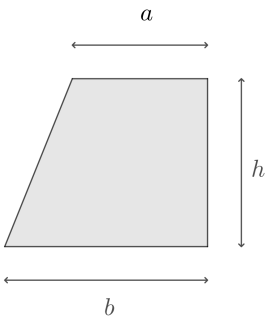
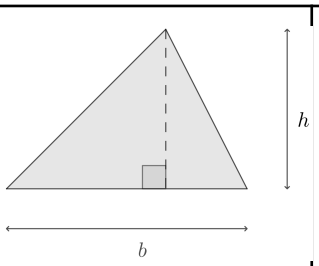
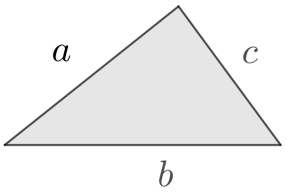
DESCRIPTION

LEVEL 1 Students consider, name and draw the different polygons of the Logifaces blocks.

LEVEL 2 Students collate the area formulas of the polygons found in Level 1.

SOLUTIONS / EXAMPLES

Polygons that can be found: rectangle, trapezium, triangle (equilateral and isosceles triangle).

Rectangle	Trapezium	Triangle	
			
$Area = w \times h$	$Area = \frac{1}{2}(a + b) \times h$	$Area = \frac{1}{2} \times b \times h$	Heron's formula: $Area = \sqrt{s(s-a)(s-b)(s-c)}$, where $s = \frac{a+b+c}{2}$

PRIOR KNOWLEDGE

Polygon types, Area formula of polygons

RECOMMENDATIONS / COMMENTS