

Project code: 2019-1-EL01-KA201-062914

Erasmus+ Call: 2019 - KA2 -









3D printing technology aims students understanding maths and recycling procedure

02_3rd Currícula of Maths: Stereometry

Perimeter and Area of 2D shapes

Outline

- Perimeter and Area
- Videos







2D shapes

Basic Characteristcs

Length **(L)** Width **(W)** Height **(H)**







Perimeter

Area

 $P=\alpha+\alpha+\alpha+\alpha=4\alpha$



Rectangular



Perimeter

P=a+b+a+b=2a+2b







Parallelogram



ΚΡΑΤΙΚΩΝ ΥΠΟΤΡΟΦΙΩΝ

Erasmus+

This project is funded by the European Unior



2D Shapes

Triangle



Sides of triangle: α, b, c Height of triangle: h

Unequal angles Unequal sides



Perimeter P=α+b+c

Area

 $S = \frac{1}{2} (b*h)$





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2D Shapes

Pupils 6-8 Trapezium



Perimeter

 $P=\alpha_1+\alpha_2+b_1+b_2$

Area

 $S = \frac{1}{2} [(b_1+b_2)*h]$





2D Shapes

Circle





Perimeter

 $P=2^{*}\pi^{*}r$

Area

 $S=\pi^*r^2$



Calculator. net

home / math / area calculator

Area Calculator

Rectangle

Result

Area = I × w

- $= 30 \times 20$
- = 600 meters²

Show result in other units



Triangle



FINANCIAL FITNESS & HEALTH



S P V

R G



KPATIKON

ΥΠΟΤΡΟΦΙΩΝ

Area Calculator

Use the following link https://www.calculator.net/



Drag and drop_then find m² of the area

https://www.abcya.com/games/shapes_geometry_game





Κ Ρ Α Τ Ι Κ Ω Ν ΥΠΟΤΡΟΦΙΩΝ



Switch shapes to get rows or columns

→ C 🌢 toytheater.com/shape-fall/

Εφαρμογές





Κ Ρ Α Τ Ι Κ Ω Ν ΥΠΟΤΡΟΦΙΩΝ

https://toytheater.com/shape-fall/



Video





- <u>https://www.youtube.com/watch?v=gtMKsFXjLHw</u>
 (11-14 who already had been taught the Theorem of Pythagoras)
- https://www.youtube.com/watch?v=JnLDmw3bbuw

