

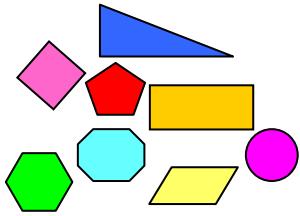
# **Analogije među likovima i tijelima i među njihovim formulama**

**Ovo je materijal za pano.  
Preporučam isprintati na papir nježno žute boje.**

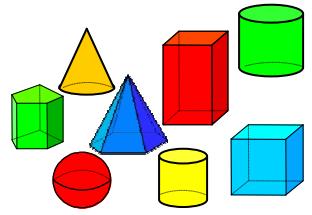
**Dolje ćete naći dvije varijante.  
Prva se sastoji od dva papira  
koje bi trebalo dolijepiti jedan na drugi  
da se dobije jedna tablica bez prekida.**

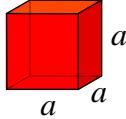
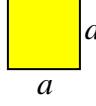
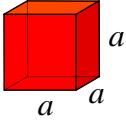
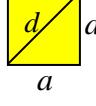
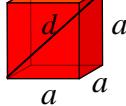
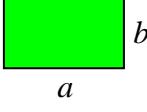
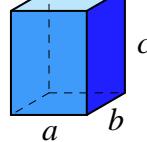
**U drugoj verziji su slike grupirane  
i u njoj su tri papira  
koji trebaju ostati odvojeni  
(ne lijepe se jedan na drugi).  
Izaberite koja vam varijanta više odgovara.**

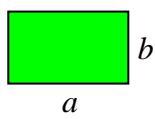
**Antonija Horvatek  
*Matematika na dlanu*  
<http://www.antonija-horvatek.from.hr/>**



## Analogije među likovima i tijelima i među njihovim formulama



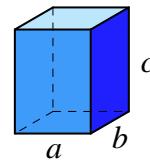
GEOMETRIJSKI LIKOVI	GEOMETRIJSKA TIJELA
<b>- dvodimenzionalni</b> <b>- dijelovi ravnine</b>	<b>- trodimenzionalna</b> <b>- dijelovi prostora</b>
površina (p) - veličina unutrašnjosti lika	obujam (V) - veličina unutrašnjosti tijela
 kvadrat	 kocka
 $p = \text{duljina} \cdot \text{širina}$ $p = a^2$ <p style="text-align: center;">↑ broj dimenzija kvadrata</p>	 $V = \text{duljina} \cdot \text{širina} \cdot \text{visina}$ $V = a^3$ <p style="text-align: center;">↑ broj dimenzija kocke</p>
 $d = a\sqrt{2}$	 $d = a\sqrt{3}$
 pravokutnik	 kvadar



$$p = \text{duljina} \cdot \text{širina}$$

$$p = a \cdot b$$

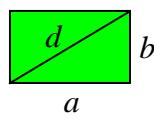
↑↑  
dimenziye pravokutnika



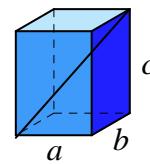
$$V = \text{duljina} \cdot \text{širina} \cdot \text{visina}$$

$$V = a \cdot b \cdot c$$

↑↑↑  
dimenziye kvadra

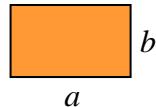


$$d = \sqrt{a^2 + b^2}$$



$$d = \sqrt{a^2 + b^2 + c^2}$$

### pravokutnik

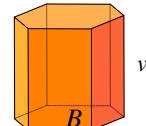


$$p = a \cdot b$$

$$P = \text{baza} \cdot \text{visina}$$

↖ ↗  
dvije dimenziye

### prizma



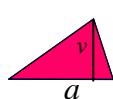
$$V = B \cdot v$$

$$V = \text{baza} \cdot \text{visina}$$

↗ ↘  
površina baze; jedna dimenziya  
dvije dimenziye

↖ ↗  
tri dimenziye

### trokut

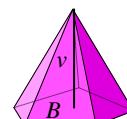


$$P = \frac{a \cdot v}{2}$$

$$P = \frac{\text{baza} \cdot \text{visina}}{2}$$

(Uoči dimenziye u formuli!)

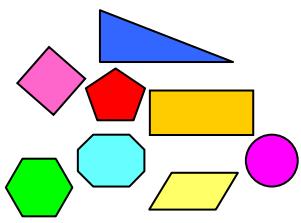
### piramida



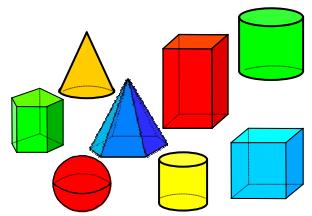
$$V = \frac{B \cdot v}{3}$$

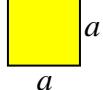
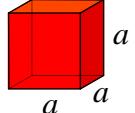
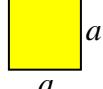
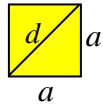
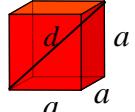
$$V = \frac{\text{baza} \cdot \text{visina}}{3}$$

(Uoči dimenziye u formuli!)



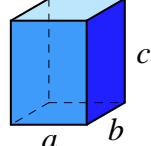
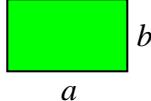
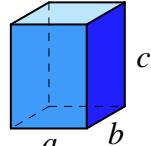
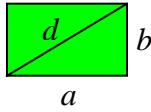
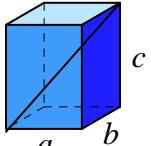
## Analogije među likovima i tijelima i među njihovim formulama



<b>GEOMETRIJSKI LIKOVI</b> - dvodimenzionalni - dijelovi ravnine	<b>GEOMETRIJSKA TIJELA</b> - trodimenzionalna - dijelovi prostora
površina (p) - veličina unutrašnjosti lika	obujam (V) - veličina unutrašnjosti tijela
 kvadrat	 kocka
 $p = \text{duljina} \cdot \text{širina}$ $p = a^2$ <p style="text-align: center;">↑ broj dimenzija kvadrata</p>	$V = \text{duljina} \cdot \text{širina} \cdot \text{visina}$ $V = a^3$ <p style="text-align: center;">↑ broj dimenzija kocke</p>
 $d = a\sqrt{2}$	 $d = a\sqrt{3}$

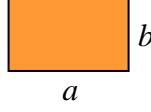
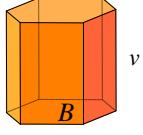
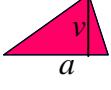
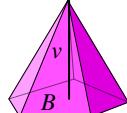
## Analogije među likovima i tijelima

### i među njihovim formulama

LIKOVNI	TIJELA
<ul style="list-style-type: none"> <li>- dvodimenzionalni</li> <li>- dijelovi ravnine</li> </ul>	<ul style="list-style-type: none"> <li>- trodimenzionalna</li> <li>- dijelovi prostora</li> </ul>
 pravokutnik	 kvadar
 $p = \text{duljina} \cdot \text{širina}$ $p = a \cdot b$ <p style="text-align: center;">↑↑</p> <p>dimenzije pravokutnika</p>	 $V = \text{duljina} \cdot \text{širina} \cdot \text{visina}$ $V = a \cdot b \cdot c$ <p style="text-align: center;">↑↑↑</p> <p>dimenzije kvadra</p>
 $d = \sqrt{a^2 + b^2}$	 $d = \sqrt{a^2 + b^2 + c^2}$

# Analogije među likovima i tijelima

## i među njihovim formulama

LIKOVİ	TIJELA
<p><b>pravokutnik</b></p>  $p = a \cdot b$ $p = \text{baza} \cdot \text{visina}$ <p style="text-align: center;"><math>\nwarrow</math>      <math>\nearrow</math> dvije dimenzije</p>	<p><b>prizma</b></p>  $V = B \cdot v$ $V = \text{baza} \cdot \text{visina}$ <p style="text-align: center;"><math>\nwarrow</math>      <math>\nearrow</math> površina baze;      jedna dimenzija dvije dimenzije      tri dimenzije</p>
<p><b>trokut</b></p>  $p = \frac{a \cdot v}{2}$ $p = \frac{\text{baza} \cdot \text{visina}}{2}$ <p>(Uoči dimenzije u formuli!)</p>	<p><b>piramida</b></p>  $V = \frac{B \cdot v}{3}$ $V = \frac{\text{baza} \cdot \text{visina}}{3}$ <p>(Uoči dimenzije u formuli!)</p>