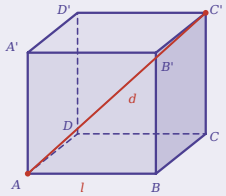
Formule — poliedre și corpuri rotunde

Cubul



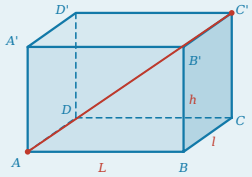
$$A_l = 4l^2$$

$$A_t = 6l^2$$

$$V = l^3$$

$$d = l\sqrt{3}$$

Paralelipipedul dreptunghic



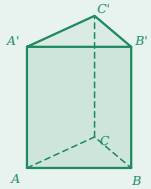
$$A_l = P_b \cdot h$$

$$A_t = 2(L \cdot l + L \cdot h + l \cdot h)$$

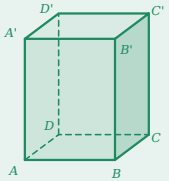
$$V = L \cdot l \cdot h$$

$$d = \sqrt{L^2 + l^2 + h^2}$$

Prisma dreaptă (regulată)



triunghiulară



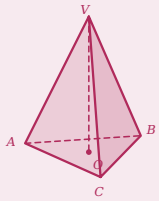
patrulateră

$$A_l = P_b \cdot h$$

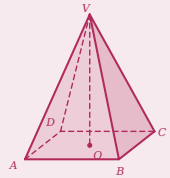
$$A_t = A_l + 2A_b$$

$$V = A_b \cdot h$$

Piramida regulată



triunghiulară



patrulateră

$$A_l = \frac{P_b \cdot a_p}{2}$$

$$A_t = A_l + A_b$$

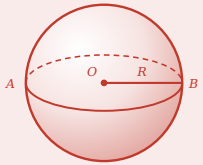
$$V = \frac{A_b \cdot h}{3}$$

Notații

A_l	aria laterală
A_t	aria totală
V	volumul
P_b	perimetrul bazei
A_b	aria bazei
a_p	apotema piramidei
h	înălțimea corpului
G	generatoarea
R	raza bazei / a sferei
d	diagonala

1 dm^3 = 1 litru · 1 m^3 = 1000 litri

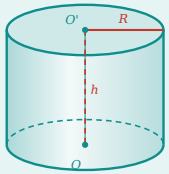
Sfera



$$A = 4\pi R^2$$

$$V = \frac{4\pi R^3}{3}$$

Cilindrul circular drept

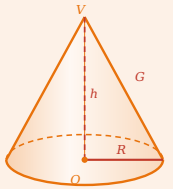


$$A_l = 2\pi R \cdot h$$

$$A_t = 2\pi R(R + h)$$

$$V = \pi R^2 h$$

Conul circular drept



$$A_l = \pi R \cdot G$$

$$A_t = \pi R(R + G)$$

$$V = \frac{\pi R^2 h}{3}$$

$$G^2 = R^2 + h^2$$

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