



Prismas Piramides

Volumen

espacio ocupado por un cuerpo.



¿Qué son los Prismas?

Aristas, base, caras laterales
vértices, base

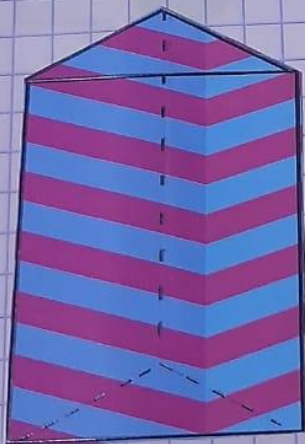
Un Prisma por su número de lados
Puede ser:

Prisma triangular	Prisma pentagonal
Prisma cuadrilateral	Prisma hexagonal
Prisma heptagonal	Prisma octogonal

vivo

Ejercicios

Prismas y Pirámides:



$$b = 4\text{cm}$$

$$h = 8\text{cm}$$

$$h = 3\text{cm}$$

Prisma triangular

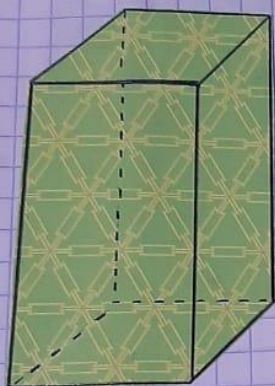
$$V = ab \cdot h$$

$$ab = \frac{b \cdot h}{2} \quad ab = \frac{4 \cdot 3}{2}$$

$$ab = 6\text{cm}$$

$$V = 6 \cdot 8$$

$$V = 48\text{cm}^3$$



$b = 8\text{cm}$

$h_0 = 8\text{cm}$

$h = 8\text{cm}$

Prisma cuadrangular

$$U = ab \cdot h_0$$

$$ab = 1 \cdot 1$$

$$ab = 8 \cdot 8$$

$$ab = 64\text{cm}^2$$

$$U = ab \cdot h_0$$

$$U = 64 \cdot 8$$

$$U = 512\text{cm}^3$$



1000 2cm

$h_0 = 9\text{cm}$

$a_{\text{Poligono}} = 5\text{cm}$

Prisma hexagonal

$$U = ab \cdot h_0$$

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

$$U = 40 \cdot 9$$

$$ab = \frac{16 \cdot 5}{2}$$

$$U = 360\text{cm}^3$$

$$U = 40\text{cm}^2$$



$h = 20 \text{ cm}$

$b = 6 \text{ cm}$

$l = 10 \text{ cm}$

Prisma rectangular

$$V = ab \cdot h$$

$$ab = 1 \cdot 1$$

$$ab = 6 \cdot 10$$

$$a = 60 \text{ cm}^2$$

$$V = 60 \text{ cm}^2 \cdot 2$$

$$V = 120 \text{ cm}^3$$



$h = 12 \text{ cm}$

apothem
 6 cm

$l = 10 \text{ cm}$

Prisma Pentagonal

$$ab = \frac{21 \cdot 6}{2}$$

$$ab = 63 \text{ cm}^2$$

$$V = 63 \cdot 12$$

$$V = 756 \text{ cm}^3$$