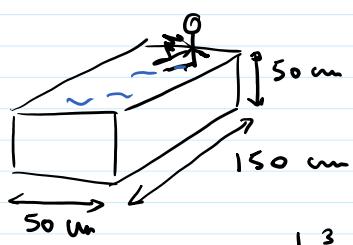


PISCINA → BAÑEROS $\sim 120 \text{ l}$
 FREGADERO 240 l



\approx ORTOEDRO

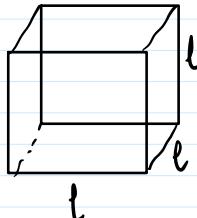
$$\begin{aligned} V &= 50 \cdot 50 \cdot 150 = 375.000 \text{ cm}^3 \\ \text{dm}^3 &= l \\ \div 1000 &\quad : 375 \text{ dm}^3 \\ &\quad \underline{\underline{= 375 \text{ l}}} \end{aligned}$$

$$\rightarrow 120 \cdot 50 \cdot 40 : 240.000 \text{ cm}^3 = 240 \text{ dm}^3 = 240 \text{ l}$$

$$\text{Ad } 60 \cdot 50 \cdot 40 = 120.000 \text{ cm}^3 = 120 \text{ l}$$

2º Media barrera

? dm^3 ?

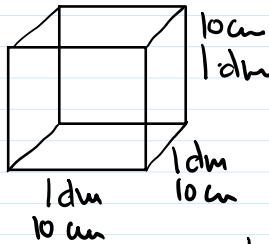


$$\cancel{V = l \cdot l \cdot l = l^3}$$

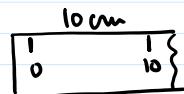
\rightarrow CUBO / HEXAEDRO



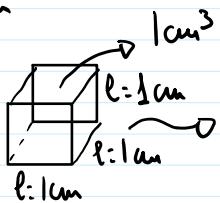
\rightarrow ORTOEDRO REGULAR (LADO del CUBO)



$$1 \text{ dm} = 10 \text{ cm}$$



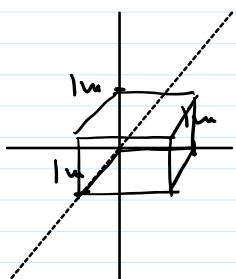
$$1 \text{ cm}^3$$



DADO de jugar
Decal



$$1 \text{ m}^3$$

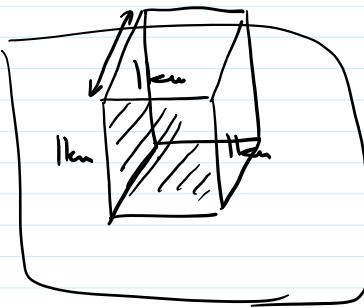
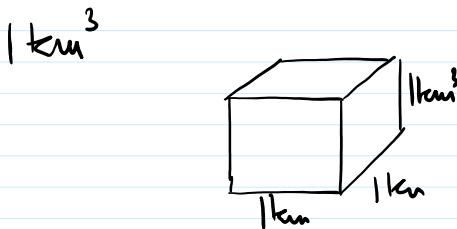


$$1 \text{ ml}$$

$$\begin{aligned} 1 \text{ l} &= 1 \text{ dm}^3 \\ \div 1000 &\quad \downarrow : 1000 \end{aligned}$$

$$1 \text{ m}^3 \downarrow \\ \text{PAGO} \quad \downarrow \\ 1 \text{ km} = 1 \text{ cm}^3$$

1 L DADO



PUNTOS (medio) \sim 1 m^3

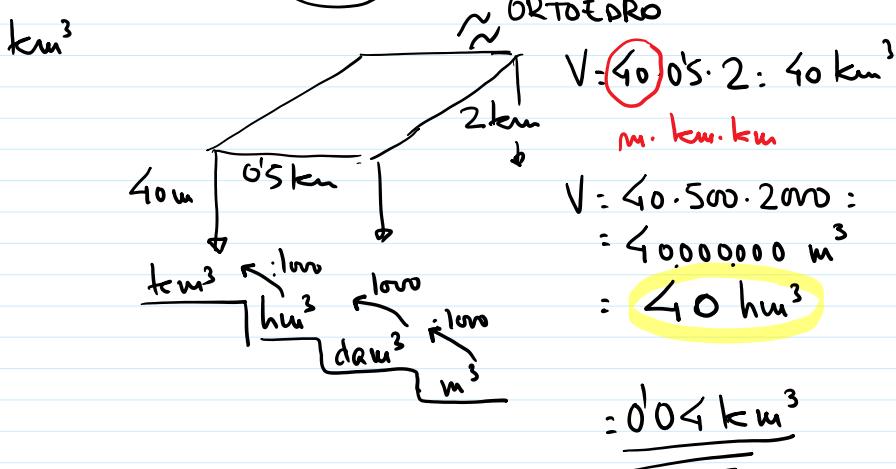
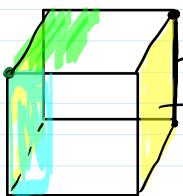


FIGURA)

. CUBO / HEXAEDRO

[POLIEDRO]



VÉRTICES (PUNTOS \rightarrow dimensión 0)

\rightarrow ARISTAS (segmentos) (Lineales)

\rightarrow CARAS (POLÍGONOS)
 Superficie PLANAS

CUBO \rightarrow 6 CARAS (CUADRADOS)

\rightarrow 12 ARISTAS
 \rightarrow 8 VÉRTICES

\rightarrow C A V
 \rightarrow FÓRMULA DE EULER

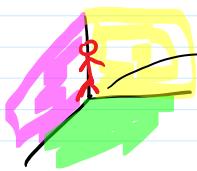
$$6 + 8 = 12 + 2 = 14 \quad \text{XVIII} \quad (\text{TOPOLOGÍA})$$

$$C + V = A + 2$$

$$C + V - A = 2 \quad \text{genero}$$

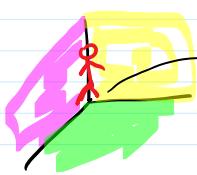
POLIEDRO

Poli - EDRO
 MUCHO ANGULO
 ESPACIO
 CARA



\rightarrow TRIEDRO
 (3 planos)

HEXAEDRO: 6 EDROS
 $= 6 \text{ CARAS}$



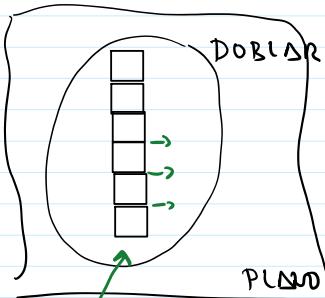
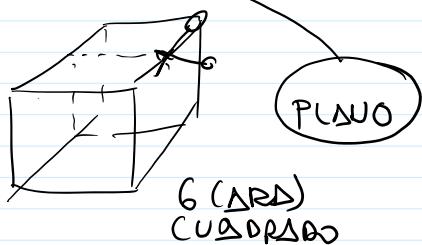
ESPACIO
CARD

→ TRIEDRO
(3 planos)

→ DIEDRO

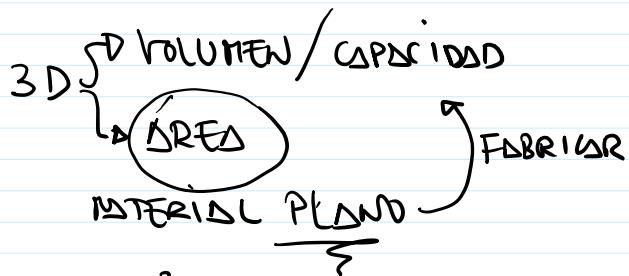
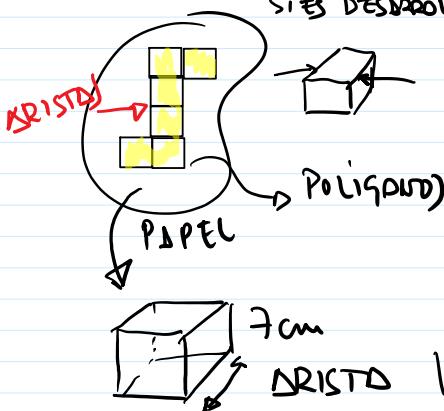
HEXAEDRO: (6 EDROS)
= 6 (CUBOS)

DESARROLLO PLANO → FIGURA PLANO → DOBLESSES → POLIEDRO



NO ES el
desarrollo plano
del cubo

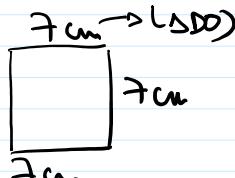
SÍ ES DESARROLLO PLANO CUBO



¿Cuánta cartulina se necesita para construirlo?
ÁREA = ÁREA del desarrollo plano

CUBO = 6 CARDS

(CUADRADOS)



$$\text{ÁREA} = 6 \cdot 7^2 = 49 \cdot 6 = 294 \text{ cm}^2$$

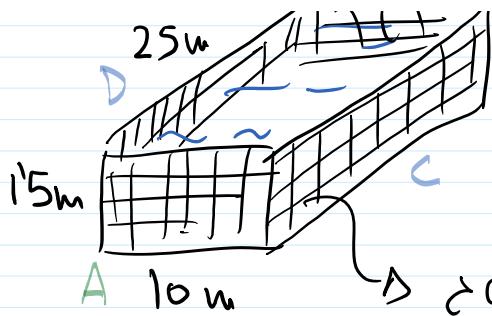
Con 294 cm^2 de CARTÓN → CUBO 243 cm^3

PROBLEMA



B
Piscina Felipe → (USO)

$$V = 10 \cdot 15 \cdot 25 = 375 \text{ m}^3 = 375.000 \text{ litros}$$

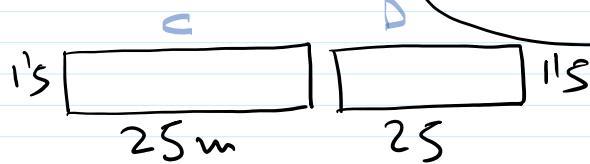
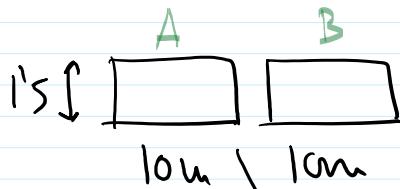


$$V = 10 \cdot 15 \cdot 2.5 = 375 \text{ m}^3 = 375.000 \text{ litros}$$

BALDOSAS) INTERIOR

? COSTO? ΔRED ~

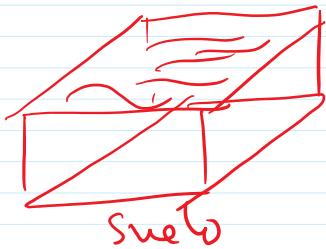
COSTE
FABRICACIÓN



SUECO

10

$$\Delta RED = 2(10 \cdot 1.5) + 2(25 \cdot 1.5) + 2(25 \cdot 10) = \boxed{\quad} \text{ m}^2$$



PINTAR SUECO

PINTAR SUPERFICIE H_2O

(ERROR)

$$A = 375 \text{ m}^2$$

$$V = 375 \text{ m}^3$$

D FUNDAMENTAR

Δm^2 BALDOSA

38'S €

(extrema)

$$P \text{ COSTE: } 375 \cdot 38'S = 13,667'S \text{ €}$$