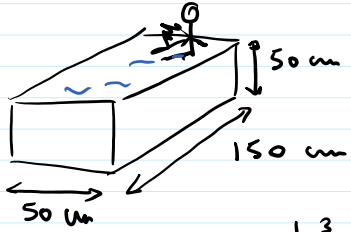


PISCINA → BAÑERA ~ 120 l  
 FREJADERO 240 l



≈ ORTOEDRO

$$V = 50 \cdot 50 \cdot 150 = 375.000 \text{ cm}^3$$

$$\text{dm}^3 = \text{l} \quad \therefore 375 \text{ dm}^3$$

$$\div 1000 = 375 \text{ l}$$

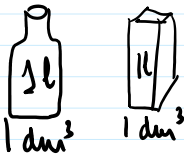


$$\rightarrow 120 \cdot 50 \cdot 40 = 240.000 \text{ cm}^3 = 240 \text{ dm}^3 = 240 \text{ l}$$

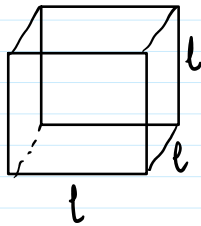
$$\text{Ad } 60 \cdot 50 \cdot 40 = 120.000 \text{ cm}^3 = 120 \text{ l}$$

2ª Media barrera

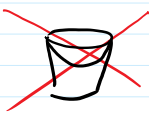
¿ dm³ ?



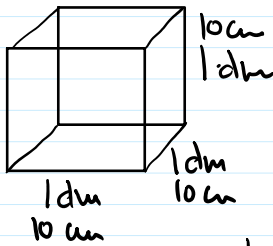
↳ CUBO / HEXAEDRO



$$V = l \cdot l \cdot l = l^3$$

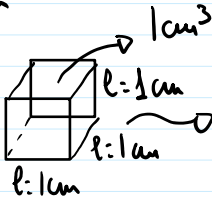


↳ ORTOEDRO RESQUISA (LADO del CUBO)



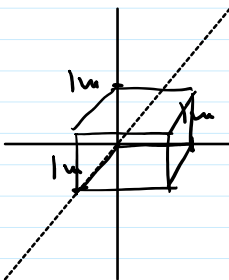
$$1 \text{ dm} = 10 \text{ cm} \quad \left\{ \begin{array}{l} 10 \text{ cm} \\ 10 \text{ cm} \end{array} \right.$$

1 cm³



DADO de jugar  
 Dedal

1 m³



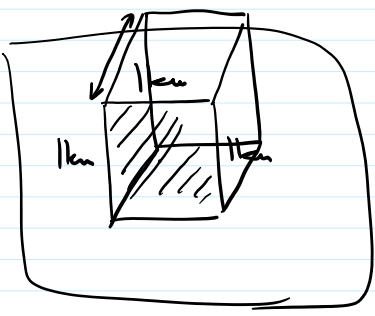
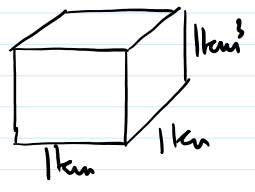
1 ml

$$1 \text{ l} = 1 \text{ dm}^3$$

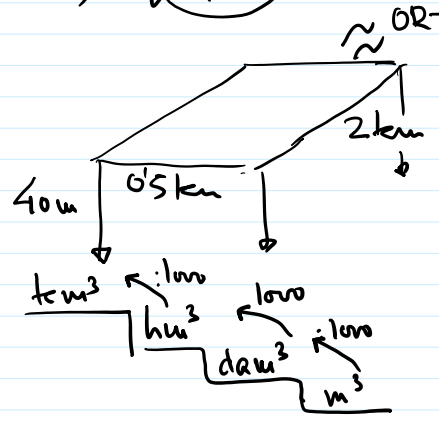
$$\div 1000 \quad \div 1000$$

$\downarrow : 100$   
 $\downarrow : 1000$   
 $1 \text{ ml} = 1 \text{ cm}^3$   
 PADO                      LL DADO

$1 \text{ km}^3$



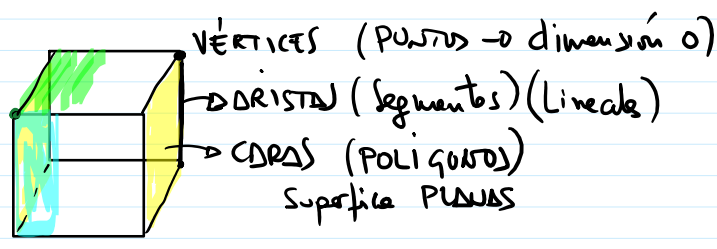
PAU... (medio)  $\sim$   $\text{Hm}^3$   
 $\text{km}^3$



$\sim$  ORTOEDRO  
 $V = 40 \cdot 0.5 \cdot 2 = 40 \text{ km}^3$   
 $m \cdot km \cdot km$   
 $V = 40 \cdot 500 \cdot 2000 = 40000000 \text{ m}^3$   
 $= 40 \text{ hm}^3$   
 $= 0.04 \text{ km}^3$

FIGURAS

. CUBO/HEXAEDRO  
 [POLIEDRO]



CUBO  $\rightarrow$  6 CARAS (CUADRADOS)  
 $\rightarrow$  12 ARISTAS  
 $\rightarrow$  8 VÉRTICES

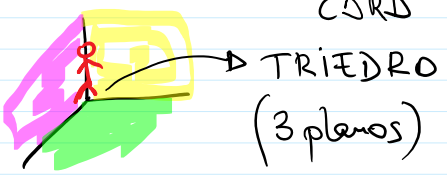
$C + V = A + 2$   
 $\rightarrow$  FÓRMULA DE EULER  
 XVIII (TOPOLOGÍA)

$6 + 8 = 12 + 2 = 14$

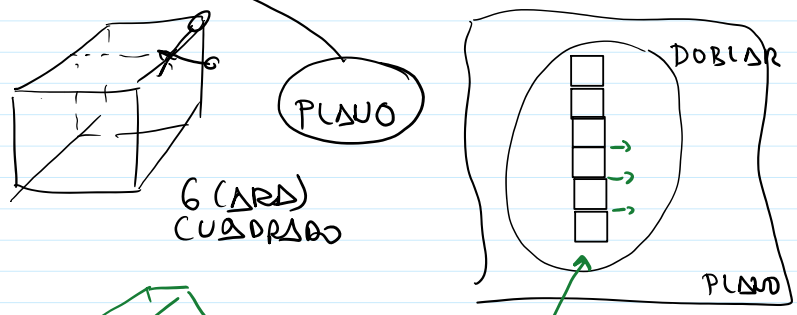
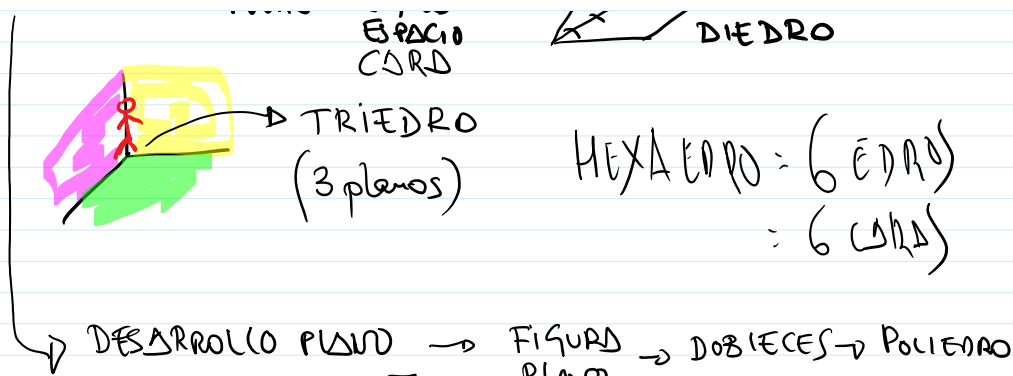
$C + V - A = 2$  Género

POLIEDRO

Poli-EDRO  
 MUCHO ANSOLU  
 ESPACIO  
 CARAS



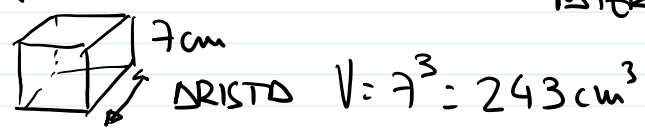
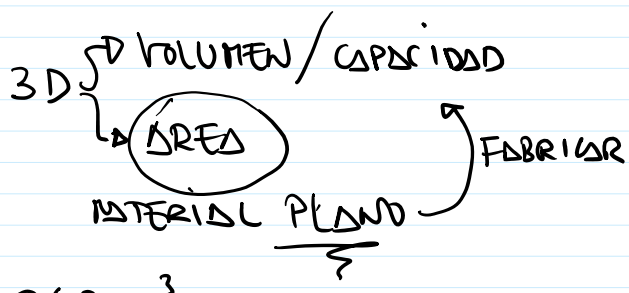
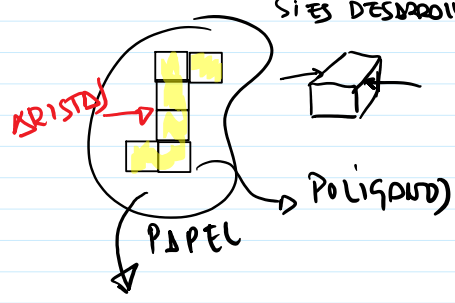
HEXAEDRO = 6 EDROS  
 = 6 CARAS



NO ES CUBO

NO ES el desarrollo plano del cubo

SI ES DESARROLLO PLANO CUBO



¿Cuánta cartulina se precisa para construirlo?

ÁREA = ÁREA del desarrollo plano

CUBO = 6 CARAS

CUADRADOS (7cm → LADO)

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

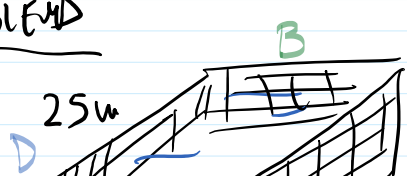
7cm

7cm

7cm

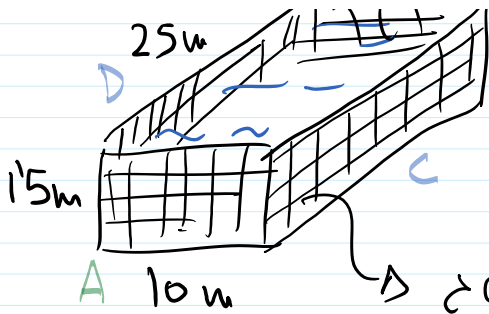
Con  $294 \text{ cm}^2$  de CARTÓN → CUBO  $243 \text{ cm}^3$

PROBLEMA



Piscina Felipe → (USO)

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

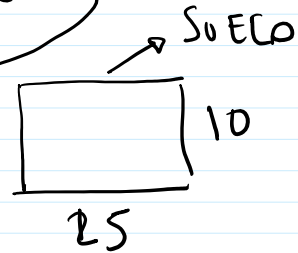
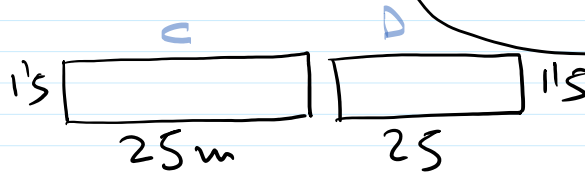
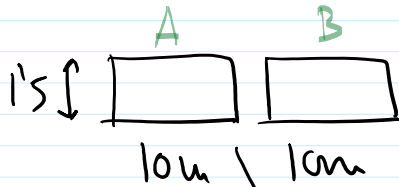


$$V = 10 \cdot 1.5 \cdot 25 = 375 \text{ m}^3 = \underline{375.000 \text{ litros}}$$

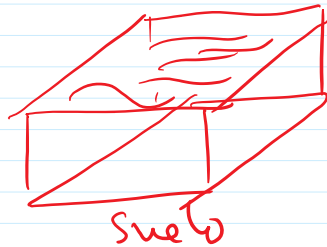
BALDOSAJ INTERIOR

¿COSTA? ΔREES

COSTE FABRICACION



$$\Delta REES = 2(10 \cdot 1.5) + 2(25 \cdot 1.5) + 2(25 \cdot 10) = \boxed{\phantom{000}} \text{ m}^2$$



PINTAR SUELO  
PINTAR SUPERFICIE H<sub>2</sub>O

(ERROR)

$$A = 355 \text{ m}^2$$

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

EMBALDOLAR  $\Delta \text{m}^2$  BALDOSA

38'5 €

(Extrema)

$$\text{COSTE: } 355 \cdot 38'5 = 13.667'5 \text{ €}$$