

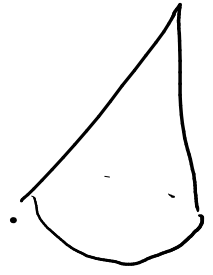
1)

h

m :

e

$$\rho = \frac{m}{V} =$$



~~$V = A \cdot h$~~

$$m = 77,88 \text{ g}$$

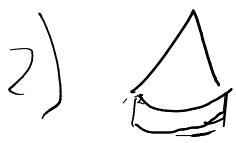
$$A = 22,37 \text{ cm}^2$$

$$h = 4,57 \text{ cm}$$

$$V = \frac{1}{3} A \cdot h = 34,07 \text{ cm}^3$$

~~$\rho = \frac{1}{3}$~~ $\rho = 2,28 \text{ g/cm}^3$

$\frac{\text{kg}}{\text{m}^3}$
 \uparrow
 $\frac{\text{g}}{\text{cm}^3}$



~~$\rho = 0,55 \text{ g/cm}^3$~~ ; $\rho = 2,72 \text{ g/cm}^3$

Eureka!

Aluminium

3) sfera di cera : $\rho : 1,03 \text{ g/cm}^3$

$\rho_{\text{H}_2\text{O}}$

calcolare ?
misurare ?

1 kg ?

massa H_2O

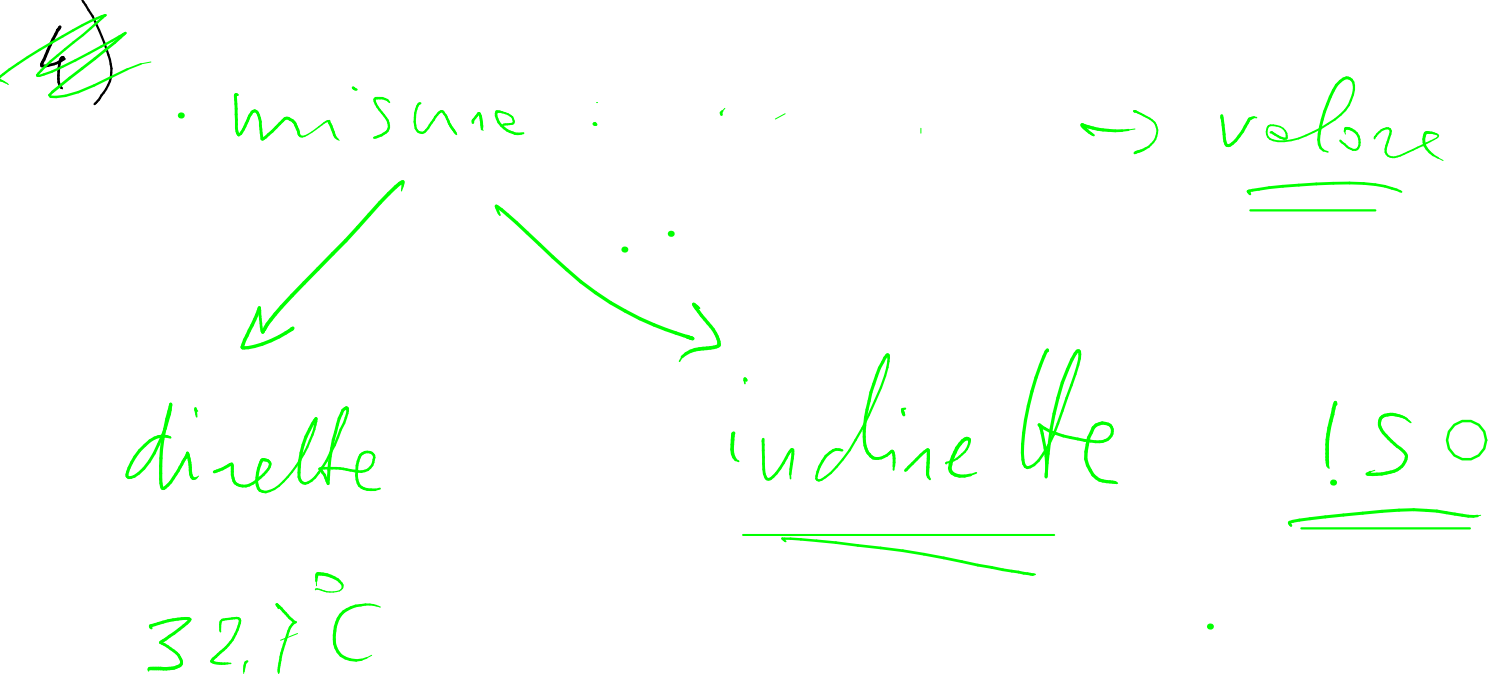
in $1 \text{ dm}^3 = 1 \text{ litro}$

$$\rho_{\text{H}_2\text{O}} = 1 \frac{\text{kg}}{\text{dm}^3} = 1 \frac{\text{kg}}{\text{L}} = 1000 \frac{\text{kg}}{\text{m}^3}$$

$$1 \text{ m}^3 \rightarrow 1000 \text{ dm}^3 = 1000 \text{ L}$$

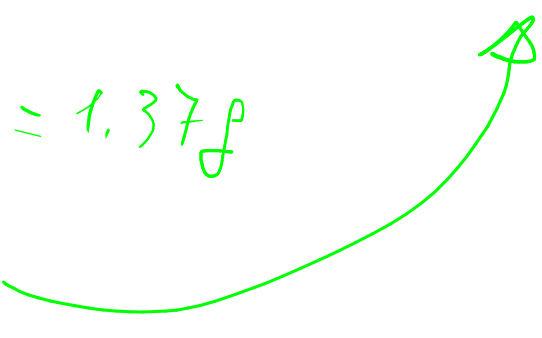
$$1 \text{ m} = \underline{10} \text{ dm}$$

ρ_{Al} ; ρ_{Pb} ; ρ_{Hg} ; ρ_{Au}

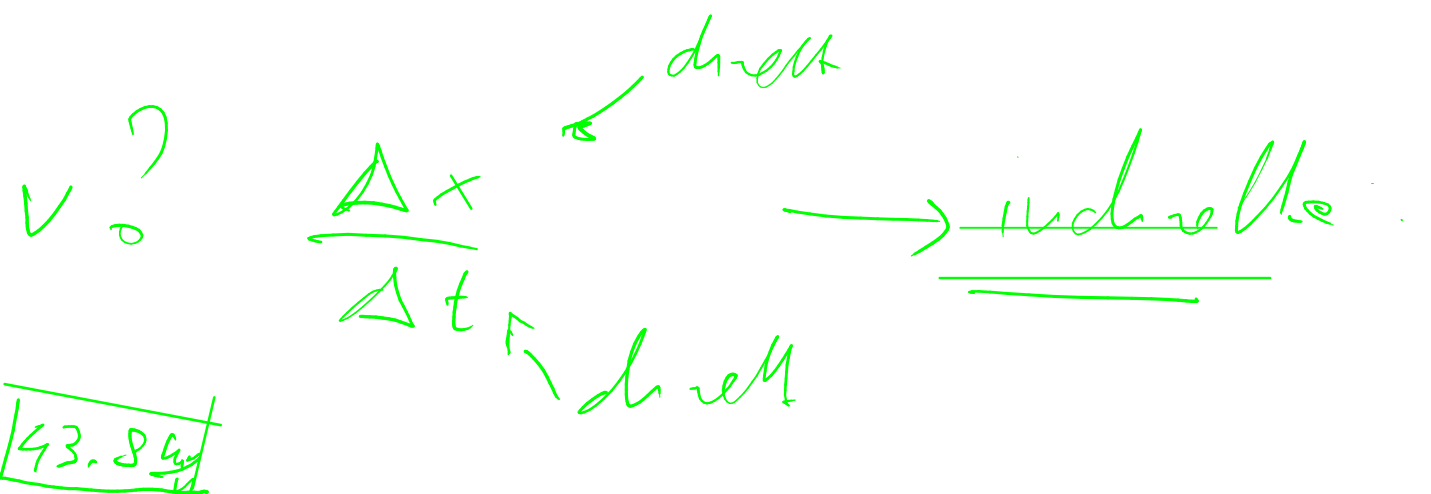


$m = 1,37 \mu$

(V)



$R = 0,32 \text{ cm}$



Sesso $\rho: 2,53 \text{ g/cm}^3$

misura indiretta

ρ_{Aria} !

1) Wiki

2) $PV = nRT$

Blocco di polistirolo

n 22°C

$$m = 26,60 \text{ g}$$

$$h = 19,8 \text{ cm}$$

$$l = 8,9 \text{ cm}$$

2 dis

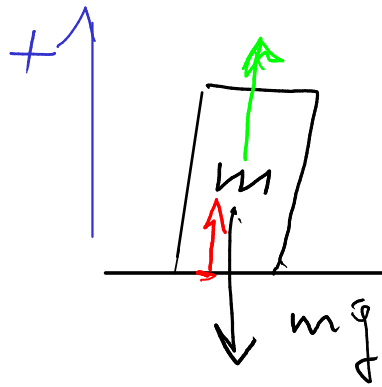
0,9 dis

$$\underline{1,6 \text{ dm}^3}$$

1,6 L
 $\rightarrow m_{\text{Aria}}$

$$F_B + F_G = 0$$

$$F_B - mg = 0 \Rightarrow F_B = mg$$



$$F_B + F_G + F_A = 0$$

\Rightarrow Archimede