

UNITATS DE VOLUM

1-

- a) $0,028m^3 \Rightarrow 28\,000\,cm^3$
- b) $3,5 \cdot 10^4 km^3 \Rightarrow 3,5 \cdot 10^{13}\,m^3$
- c) $0,0045dam^3 \Rightarrow 4,5\,dm^3$
- d) $15\,000cm^3 \Rightarrow 1,5 \cdot 10^{-5}\,dam^3$
- e) $2hm^3 \Rightarrow 2 \cdot 10^{-3}km^3$

2-

- a) $2\,dam^3\,35m^3\,4dm^3 \Rightarrow 2\,035\,004\,dm^3$
- b) $3 \cdot 10^4 cm^3\,350m^3 \Rightarrow 350\,030\,dm^3$
- c) $0,24m^3\,345cm^3 \Rightarrow 240,345\,dm^3$

3-

$$\text{Area} = \text{costat}^2 = 64cm^2 \Rightarrow \text{costat} = \sqrt{64} = 8\,cm \Rightarrow \text{Volum} = \text{costat}^3 = 8^3 = 512\,cm^3$$

4-

$$10^2 = r^2 + 8^2 \Rightarrow r = \sqrt{10^2 - 8^2} = 6cm \Rightarrow V = \frac{1}{3} \pi r^2 h \Rightarrow V = \frac{1}{3} \pi \cdot 6^2 \cdot 8 = 301,6\,cm^3$$

5-

$$A = 2\pi r = 25\pi \Rightarrow r = \frac{25\pi}{2\pi} = 12,5\,dm \Rightarrow h = 2r \Rightarrow h = 25\,dm \Rightarrow V = A_B \cdot h = 25\pi \cdot 25 = 1\,963,5\,dm^3$$

6-

$$V = (\pi \cdot 18) \cdot 80 = 4\,524\,dm^3 = 4\,524\,L$$

7-

$$V = 4dm \cdot 15dm \cdot 16,5dm = 990dm^3 = 990L \Rightarrow \text{Per tant sí que hi caben.}$$

8-

$$\text{a) } \frac{1}{4} m^3 = 250 L \quad \text{b) } 500 cm^3 = 0,5L \quad \text{c) } 10^6 mL = 10^3 L \quad \text{d) } \frac{1}{10^6} kL = 1 \cdot 10^{-3} L$$