

## Exercícios Genéricos: Elétricos

### • Paralelepípedos e Cubos

① comprimento =  $55 - 2 \cdot 0,5 = 50 \text{ cm} = 0,5 \text{ m}$

largura =  $26 - 2 \cdot 0,5 = 25 \text{ cm} = 0,25 \text{ m}$

altura =  $12,5 - 0,5 = 12 \text{ cm} = 0,12 \text{ m}$

$$V = 0,5 \cdot 0,25 \cdot 0,12$$

$$V = 0,015 \text{ m}^3$$

Ⓐ

② Área cubo =  $6 \cdot l^2$

Área total =  $72 \text{ m}^2$

$$72 = 6 \times 2$$

$$l^2 = \frac{72}{6}$$

Ⓑ

$$d = l \cdot \sqrt{3}$$

$$d = 2\sqrt{3} \cdot \sqrt{3} \rightarrow d = 2 \cdot 3 \rightarrow d = 6 \text{ m}$$

$$l^2 = 12$$

$$l = \sqrt{12} \rightarrow l = 2\sqrt{3}$$



$$\textcircled{3} \quad d = 50 \text{ cm} = 0,5 \text{ m}$$

$\textcircled{A}$

$$V = 0,5^3 \rightarrow V = 0,125 \cdot 1000 \rightarrow V = 125 \text{ l}$$

$$\textcircled{4} \quad \text{cavata} - 1 \text{ m}^3$$

$$V_c = d^3$$

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

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

$$\textcircled{0,001 \text{ m}}$$

$$V = 1000 \text{ l} - 1 \text{ l} \Rightarrow V = 999 \text{ l}$$

$$1 \text{ m} \quad 1000 \text{ l}$$

$$1-x \quad 999 \text{ l}$$

$$1000 \cdot (1-x) = 999 \cdot 1$$

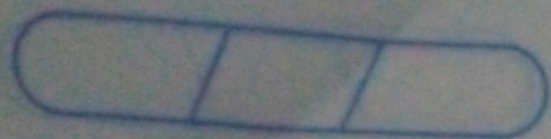
$$1000 - 1000x = 999$$

$$1000x = 1000 - 999$$

$$1000x = 1$$

$$x = 0,001 \text{ m}$$





⑤

$AB = A$  base do paralelepípedo

$h =$  altura

$$V = AB \cdot h$$

$$V_1 = 3 \cdot b \cdot h$$

$$V_2 = 2a \cdot 2b \cdot h$$

$$V_1 = 3bh$$

$$V_2 = 4abh$$

$$V_2 = 4 \cdot V_1$$

⑥

(A)

⑥