



Paralelepípedos e Cubos - Torque Bônus

01- $A = 51 \text{ cm}$ $V = A \cdot B \cdot C$
 $B = 26 \text{ cm}$ $V = (51 \cdot 0,5) \cdot (26 \cdot 0,5) \cdot (12,5 \cdot 0,5)$
 $C = 12,5 \text{ cm}$ $V = 0,015 \text{ m}^3$
 $\text{espessura} = 0,5 \text{ cm}$


(A)

02-  $AT = 6 \cdot x^2$ $D = a \sqrt{3}$
 $72 = 6 \cdot x^2$ $D = 2 \sqrt{3} \cdot \sqrt{3}$
 $12 = x^2$ $D = 2 \cdot 3$
 6 $D = 6$
 $12 = x^2$
 $2\sqrt{3} = x$

(B)

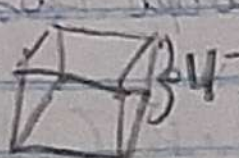
03-  $V = a^3$ $0,125, 1000$
 $V = 5^3$ 125 l
 $V = 125 \text{ cm}^3$
 ou $V = 125 \text{ l}$
 $V = 0,125 \text{ m}^3$

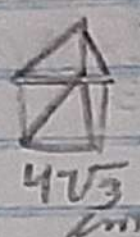
(A)

04-  $V = a^3$ $1, 1000$
 $V = 1^3$ $V = 1000 \text{ l}$
 $V = 1 \text{ m}^3$
 $1000 - 1 = 999 \text{ l}$
 $\text{Adição em } 0,001 \text{ m}^3$ $0,999 \text{ l} =$ $999 \div 1000 =$
 $0,001 \text{ m}^3$ $0,999 \text{ l}$

05- $V_1 = h \cdot b \cdot c$ $h \rightarrow h$ $V_2 = h \cdot 2b \cdot 2c$
 $V_1 = h \cdot b \cdot c$ $b \rightarrow 2b$ $V_2 = 4h \cdot b \cdot c$
 $c \rightarrow 2c$

ou seja, quatro vezes $V_2 = 4V_1$ (C)

Q6 -  $V_B = 4^3$
 $= (4\sqrt{3})^3 = 192\sqrt{3}$



$$V_B = V_C$$

$$V_B = 192\sqrt{3}$$

$$192\sqrt{3} = \frac{A \cdot (4\sqrt{3})^2 \cdot \sqrt{3}}{4}$$

$$192\sqrt{3} = \frac{A \cdot (16 \cdot 3 \cdot \sqrt{3})}{4}$$

$$A = \frac{192\sqrt{3} \cdot 4}{48\sqrt{3}}$$

$$h = 4 \cdot 4$$

$$R = 16$$

$$A_T = 2A_B + A_L$$

$$A_T = \frac{2 \cdot (4\sqrt{3})^2 \cdot \sqrt{3}}{4} + 3 \cdot 16 \cdot 4\sqrt{3}$$

$$A_T = \frac{2 \cdot (48\sqrt{3})}{4} + 192\sqrt{3}$$

$$A_T = 24\sqrt{3} + 192\sqrt{3}$$

$$A_T = 216\sqrt{3}$$

$$A_T = 216\sqrt{3}$$

