

**3^a
SÉRIE**

CANAL SEDUC-PI3



PROFESSOR (A):



DISCIPLINA:



CONTEÚDO:



TEMA GERADOR:



DATA:

**ALEXANDRO
KESLLER**

**MATEMÁTICA
OFICINA**

**ALGEBRA/
GEOMETRIA**

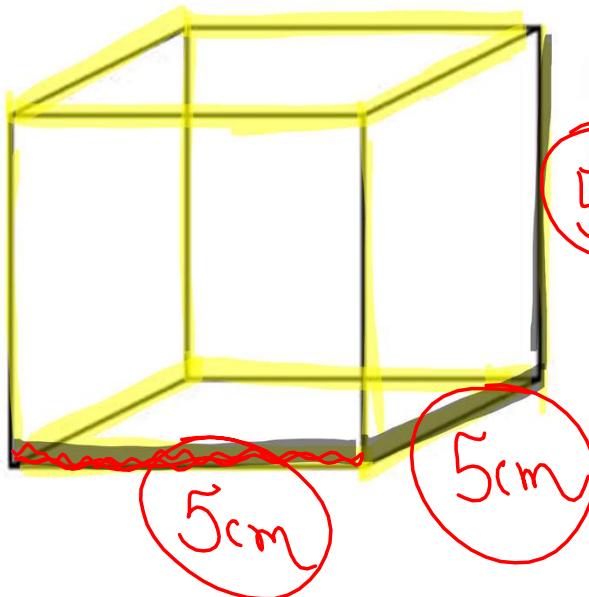
**SAÚDE NA
ESCOLA**

04.07.2019

$$\begin{aligned} 1m^3 &\Rightarrow 1000l \\ 1cm^3 &\Rightarrow 1ml \end{aligned}$$

Exercício proposto

Determine o **volume** de um cubo sabendo que a soma das medidas de todas as suas arestas é igual a **60 cm.**



$$\begin{aligned} 12 \text{ arestas} \\ 5 \\ 60\text{cm} \\ (0) \\ 12 \\ 5\text{cm} \\ \text{cm} \cdot \text{cm} \cdot \text{cm} \end{aligned}$$

$$V_{\text{Prisma}} = A_B \cdot H$$

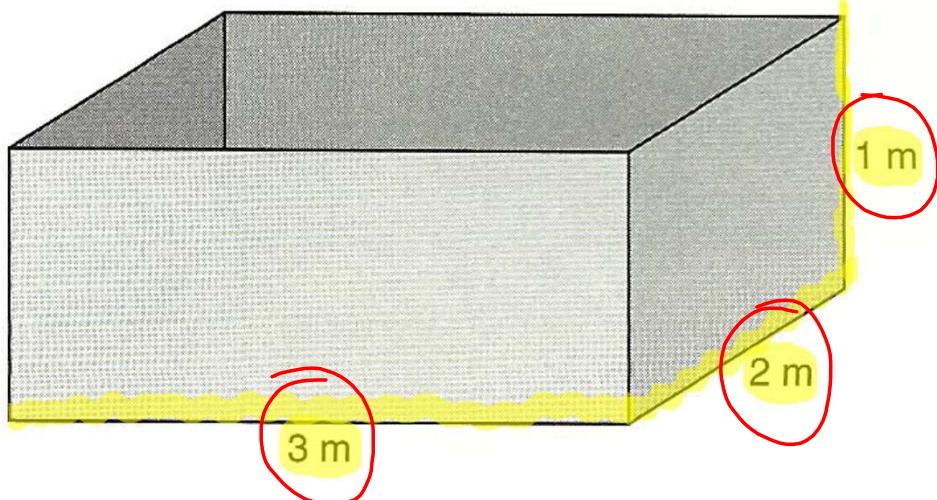
$$V_{\text{Cubo}} = \underbrace{5\text{cm}}_{A_B} \cdot \underbrace{5\text{cm}}_{A_B} \cdot \underbrace{5\text{cm}}_H$$

$$V_{\text{Cubo}} = 125\text{cm}^3 \Rightarrow 125\text{ml}$$

$$1m^3 \Rightarrow 1000l$$

Exercício proposto

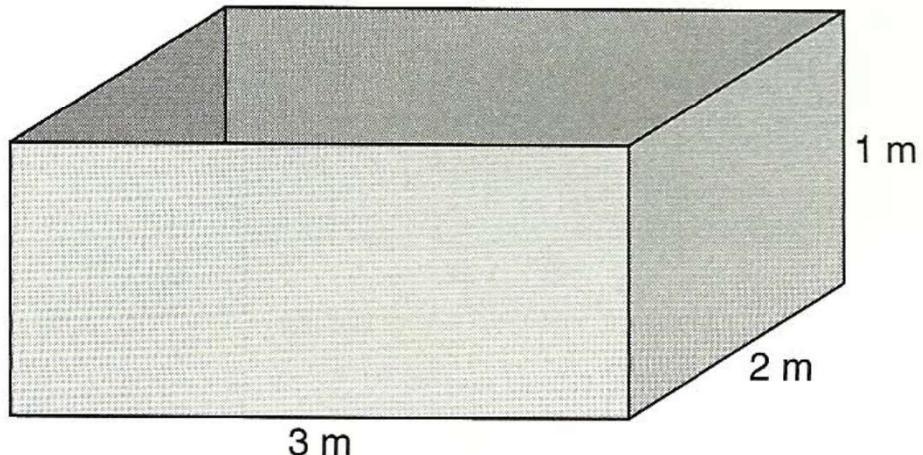
Uma caixa d'água tem, internamente, a forma de um paralelepípedo reto-retângulo com 3 m de comprimento, 2 m de largura e 1 m de altura. Calcular a capacidade dessa caixa d'água em litros.



$$\text{VOLUME} = 3m^{\textcircled{1}} \cdot 2m^{\textcircled{1}} \cdot 1m^{\textcircled{1}}$$

$$\underline{\underline{V = 6m^3 (\text{Volume})}}$$

$$\text{Capacidade} \rightarrow 6000l + \text{nos}$$

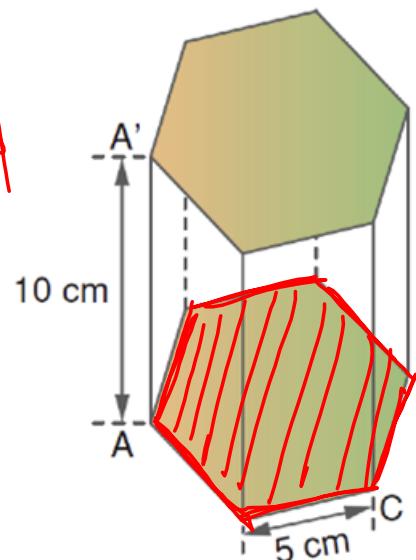


PROGRAMA DE MEDIDA E TECNOLOGIA

Exercício proposto

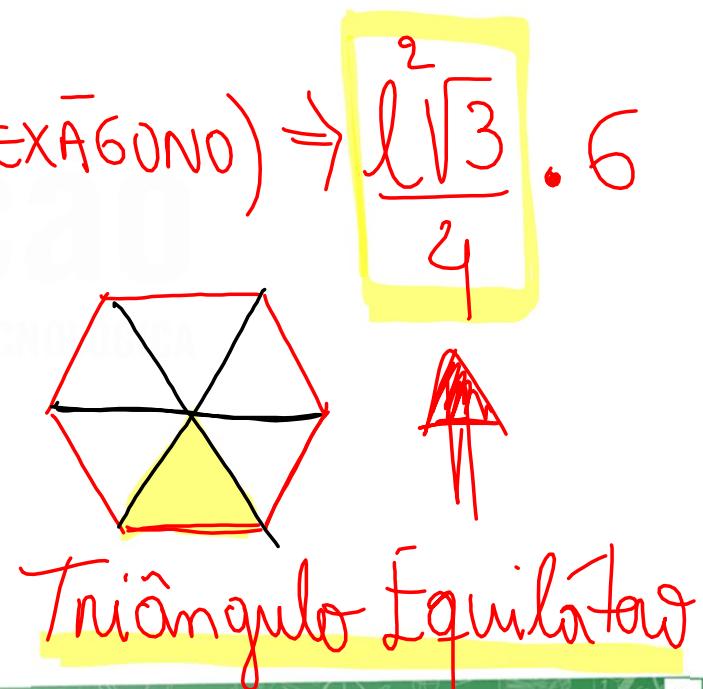
A figura ao lado apresenta um prisma reto cujas bases são hexágonos regulares. Os lados dos hexágonos medem 5 cm cada um e a altura do prisma mede 10 cm. Determine o volume do prisma abaixo.

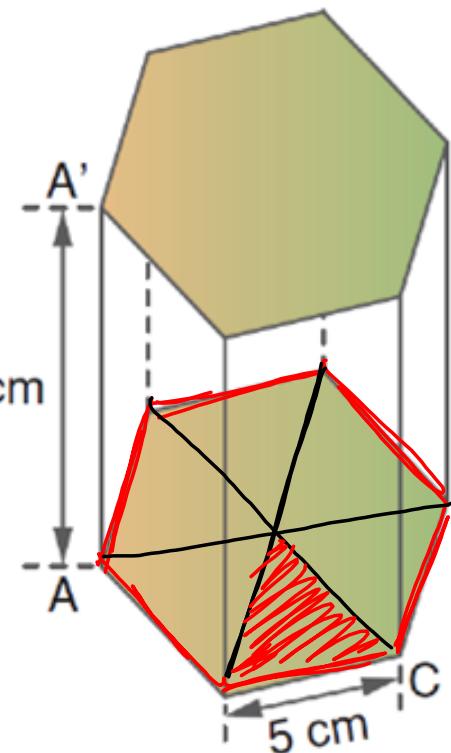
$$V_{\text{Prisma}} = A_{\text{Base}} \cdot H$$



$$\text{ÁREA (HEXÁGONO)} \Rightarrow \frac{l^2 \sqrt{3}}{4} \cdot 6$$

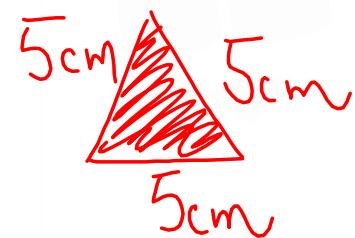
← BASE





$$A_{\text{HEXÁGONO}} = \frac{3}{4} \cdot 25\sqrt{3}$$

$$A_{\text{BÁSE}} = \frac{75\sqrt{3}}{2} \text{ cm}^2$$



$$A_{\triangle} = \frac{5 \cdot \sqrt{3}}{4} \Rightarrow A_{\triangle} = \frac{25\sqrt{3}}{4}$$