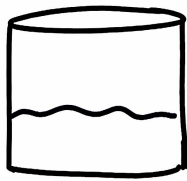


Calculating Volume (V)

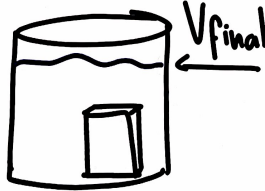
Volume by Difference

Finding volume through difference in liquid measure.

Before



After



$$V_{\text{object}} = V_{\text{final}} - V_{\text{ini}}$$

$$V_{\text{ini}} = 3.50\text{mL} \quad V_{\text{final}} = 6.20\text{mL}$$

$$V_{\text{object}} = \underline{\hspace{2cm}}\text{mL}$$

$$V_{\text{object}} = V_{\text{final}} - V_{\text{ini}}$$

$$= \underline{6.20\text{mL}} - \underline{3.50\text{mL}}$$

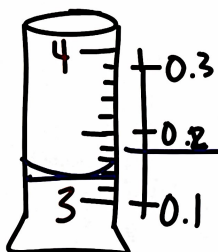
$$V_{\text{object}} = \underline{\underline{2.70\text{mL}}}$$

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Calculating Volume (V)

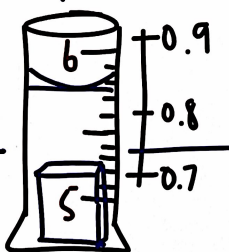
Lab Application

V_{ini}



3-4mL

V_{final}



5-6mL

$$V_{\text{ini}} = 3.17\text{mL} \quad V_{\text{fin.}} = 5.74\text{mL}$$

$$V_{\text{obj.}} = V_{\text{final}} - V_{\text{ini}}$$

$$= \underline{5.74\text{mL}} - \underline{3.17\text{mL}}$$

$$V_{\text{obj.}} = \underline{\underline{2.57\text{mL}}}$$

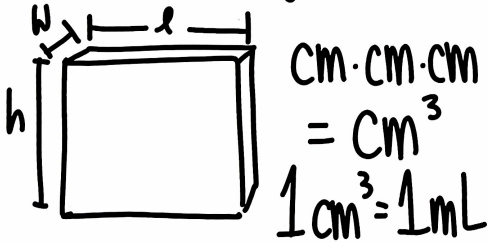
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Calculating Volume (V) Volume of Regular Objects

Cubic Volume

$$V_{\text{cube}} = l \cdot w \cdot h$$

(in length, cm)



$$\hat{V}_{\text{cube}} = l \cdot w \cdot h$$

$$l = 2.1 \text{ cm} \quad w = 3.2 \text{ cm} \quad h = 8.1 \text{ cm}$$

$$V_{\text{cube}} = \underline{\hspace{1cm}} \text{ cm}^3 = \underline{\hspace{1cm}} \text{ mL}$$

$$V_{\text{cube}} = 2.1 \text{ cm} \cdot 3.2 \text{ cm} \cdot 8.1 \text{ cm}$$
$$= 54.43 \text{ cm}^3 \leftarrow (\text{cm} \cdot \text{cm} \cdot \text{cm})$$

$$\underline{54.43 \text{ cm}^3} = \underline{54.43 \text{ mL}}$$