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#Jenny



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#Markus Jensen



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so many fake sites. this is the first one which worked! Many thanks

Problems: Show your work, include units, report answers to the correct number of significant figures.

1. A goldfish-shaped isosceles prism is placed in a glass of water. The fish is 10 cm wide and 10 cm high. The density of water is 1.0 g/cm³. How much water does the fish displace?

Side	Area (cm ²)
front	50
back	50
left	100
right	100
total	200

Partial solution:

Volume	Area
goldfish	100
water	100
total	200

$$m_{\text{goldfish}} = \rho_{\text{goldfish}} \times V_{\text{goldfish}} = 19.3 \times 100 = 1930 \text{ g}$$
$$m_{\text{water}} = \rho_{\text{water}} \times V_{\text{water}} = 1.0 \times 100 = 100 \text{ g}$$
$$m_{\text{total}} = 1930 + 100 = 2030 \text{ g}$$

2. What is the volume in cubic centimeters of a goldfish-shaped prism that is 10 cm wide and 10 cm high? The density of water is 1.0 g/cm³.

$$V = A \times h = 10 \text{ cm} \times 10 \text{ cm} \times 10 \text{ cm} = 1000 \text{ cm}^3$$

3. What is the mass of 100 cm³ of water? The density of water is 1.0 g/cm³.

$$m = \rho \times V = 1.0 \text{ g/cm}^3 \times 100 \text{ cm}^3 = 100 \text{ g}$$

Handwritten notes and calculations:

$$m_{\text{goldfish}} = \rho_{\text{goldfish}} \times V_{\text{goldfish}} = 19.3 \times 100 = 1930 \text{ g}$$
$$m_{\text{water}} = \rho_{\text{water}} \times V_{\text{water}} = 1.0 \times 100 = 100 \text{ g}$$
$$m_{\text{total}} = 1930 + 100 = 2030 \text{ g}$$

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