

# Download File PDF Lab Stoichiometry Datasheet Answers

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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 balloon is inflated to a volume of water initially. It floats in the lake. All the water displaced by the fish is caught in a pail and weighed. The fish displaces a volume of water equal to the volume of the fish. Assume water has a density of 1.0 g/mL.

Item	Mass (g)
Water	28.0
Goldfish-shaped balloon	1.0
Water displaced	27.0

Partial solution:

Volume	Mass
Water	28.0
Goldfish-shaped balloon	1.0
Water displaced	27.0

$$m_{\text{water}} = \rho_{\text{water}} \times V_{\text{displaced}} = 1.0 \text{ g/mL} \times 27.0 \text{ mL} = 27.0 \text{ g}$$

$$V_{\text{goldfish}} = \frac{m_{\text{goldfish}}}{\rho_{\text{goldfish}}} = \frac{1.0 \text{ g}}{19.3 \text{ g/cm}^3} = 0.0518 \text{ cm}^3$$

2. What is the volume in cubic centimeters of a goldfish-shaped balloon that has a diameter of 1.25 inches and a height of 1.00 inch. (Use  $\pi = 3.14$  and  $1 \text{ inch} = 2.54 \text{ cm}$ )

$$V = \frac{1}{6} \pi r^2 h = \frac{1}{6} \pi (0.625 \text{ cm})^2 (2.54 \text{ cm}) = 1.57 \text{ cm}^3$$

3. What is the mass of 1.25 m<sup>3</sup> of water? (Density of water is 1.00 g/cm<sup>3</sup>)

$$m = \rho \times V = 1.00 \text{ g/cm}^3 \times 1.25 \text{ m}^3 \times \left(\frac{100 \text{ cm}}{1 \text{ m}}\right)^3 = 1.25 \times 10^6 \text{ g}$$

4. A goldfish-shaped balloon is inflated to a volume of water initially. It floats in the lake. All the water displaced by the fish is caught in a pail and weighed. The fish displaces a volume of water equal to the volume of the fish. Assume water has a density of 1.0 g/mL.

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