

# Download File PDF Lab Stoichiometry Datasheet Answers

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu



wtf this great ebook for free?!

#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



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 weight of the fish. Assume water has a density of 1.0 g/mL.

Item	Mass (g)
Water	28.0
Goldfish	28.0
Water displaced	28.0

Partial solution:

Volume	Mass
Water	28.0
Goldfish	28.0
Water displaced	28.0

$$m_{\text{fish}} = \rho_{\text{water}} \times V_{\text{displaced}} = 1.0 \text{ g/mL} \times 28.0 \text{ mL} = 28.0 \text{ g}$$

$$\text{density} = \frac{m}{V} = \frac{28.0 \text{ g}}{28.0 \text{ mL}} = 1.0 \text{ g/mL}$$

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  $V = \frac{1}{3} \pi r^2 h$ )

$$V = \frac{1}{3} \pi (0.5 \text{ in})^2 (1.0 \text{ in}) = 0.2618 \text{ in}^3$$

$$V = 0.2618 \text{ in}^3 \times \left(\frac{2.54 \text{ cm}}{1 \text{ in}}\right)^3 = 17.0 \text{ cm}^3$$

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

$$m = \rho \times V = 1.00 \text{ g/cm}^3 \times 17.0 \text{ cm}^3 = 17.0 \text{ g}$$

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 weight of the fish. Assume water has a density of 1.0 g/mL.

Item	Mass (g)
Water	28.0
Goldfish	28.0
Water displaced	28.0

Partial solution:

Volume	Mass
Water	28.0
Goldfish	28.0
Water displaced	28.0

$$m_{\text{fish}} = \rho_{\text{water}} \times V_{\text{displaced}} = 1.0 \text{ g/mL} \times 28.0 \text{ mL} = 28.0 \text{ g}$$

$$\text{density} = \frac{m}{V} = \frac{28.0 \text{ g}}{28.0 \text{ mL}} = 1.0 \text{ g/mL}$$

$$V = \frac{1}{3} \pi r^2 h = \frac{1}{3} \pi (0.5 \text{ in})^2 (1.0 \text{ in}) = 0.2618 \text{ in}^3$$

$$V = 0.2618 \text{ in}^3 \times \left(\frac{2.54 \text{ cm}}{1 \text{ in}}\right)^3 = 17.0 \text{ cm}^3$$

$$m = \rho \times V = 1.00 \text{ g/cm}^3 \times 17.0 \text{ cm}^3 = 17.0 \text{ g}$$

$$m_{\text{fish}} = 17.0 \text{ g}$$

$$\text{density} = \frac{m}{V} = \frac{17.0 \text{ g}}{17.0 \text{ mL}} = 1.0 \text{ g/mL}$$

[Download PDF version of :  
Lab Stoichiometry Datasheet Answers](#)