

Check Your Understanding!

Answer the following problems. Type in your answers on the boxes. You can use a calculator to compute. Don't forget to type in the units.



1. The label of the bottle of rubbing alcohol says it contains 250 mL . rubbing alcohol is a mixture of water and isopropyl alcohol. If the mixture weighs 250 g, what is its density?

$$D = \text{mass} \div \text{volume}$$

$$D = \boxed{} \div \boxed{}$$

$$D = \boxed{}$$

2. Calculate the density of sulfuric acid if its volume is 35.4 mL and the acid weighs 65.14 g.

$$D = \text{mass} \div \text{volume}$$

$$D = \boxed{} \div \boxed{}$$

$$D = \boxed{}$$

3. A gold coin weighs 5 g, find its volume if gold has the density of 19.3 g/cm³.

V = mass ÷ density

$$V = \boxed{} \div \boxed{}$$

$$V = \boxed{}$$

4. What volume of a silver metal will weigh exactly 2500 g?
The density of silver is 10.49 g/cm³.

$$V = \text{mass} \div \text{density}$$

$$V = \boxed{} \div \boxed{}$$

$$V = \boxed{}$$

5. Find the mass of an iron bar if it has a volume of 930 cm^3 .
The density of iron is 7.87 g/cm^3 .

$M = \text{density} \times \text{volume}$

$$M = \boxed{} \times \boxed{}$$

$$M = \boxed{}$$

6. 1000 mL of gasoline will fit into the tank. Find the mass of the gasoline which has the density of 0.78 g/mL.

M = density × volume

$$M = \boxed{} \times \boxed{}$$

$$M = \boxed{}$$

Good job!

