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.

LIVEWORKSHEETS

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 = mass ÷ volume

D = ____ **÷** ____

D= ____

LIVEWORKSHEETS

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

D = mass ÷ volume

D = ____ ÷ ____

D= ____

LIVEWORKSHEETS

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

V = mass ÷ density

V = ____ ÷ ____

V = ____

LIVEWORKSHEETS

4. **What volume of a silver metal will weigh exactly 2500 g? The density of silver is 10.49 g/cm^3.**

V = mass ÷ density

V = ____ ÷ ____

V = ____

LIVEWORKSHEETS

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 = density × volume

M = ☐ × ☐

M = ☐

LIVEWORKSHEETS

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 = ____ × ____

M = ____

LIVEWORKSHEETS

Good job!

LIVEWORKSHEETS