

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.



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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=

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

D = mass ÷ volume

$$D = \frac{\text{Distance}}{\text{Time}}$$

D=



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

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

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

V =



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 =

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

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

M =

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.

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

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

$$M = \boxed{}$$

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Good job!



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