Name: Date: Period:

Density Math Practice

$$D = \frac{m}{V}$$

1. A rectangular block has a mass of 300 grams and a volume of 145 mL. Calculate the density of the block using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

2. A substance has a density of 0.6 g/mL and occupies a volume of 60 mL. Calculate the mass of this substance using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

3. A gas has a density of 0.4 g/mL and a mass of 160 grams. Calculate the volume of the gas using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

$$D = \frac{m}{V}$$

4. An irregularly shaped object has a mass of 210 grams and a volume of 120 mL. Calculate the density of the object using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

5. Another substance, with a density of 1.2 g/mL, occupies a volume of 85 mL. Calculate the mass of this substance using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

6. A metal sphere has a density of 4.3 g/mL and a mass of 200 grams. Calculate the volume of the metal sphere using the density formula.

Knowns/Unknowns	Plug & Chug	Answer w/ Units