

## Density Homework

Answer the following problems, on a separate piece of paper, using complete setups and answers with units and the correct number of significant figures.

1. What is the density of gasoline if 400.0 ml weigh 280 g?
2. What volume of ethanol has a mass of 125.00g, if the density of ethanol is 0.79g/mL?
3. You measure the mass and volume of an irregular shaped piece of copper metal using a balance and water displacement. If you determine the mass to be 50.87 grams and the volume to be 5.15 ml, what is the percentage error of your calculated density?
4. What is the identity of a sample of an elemental metal who's mass is 2.61 g and volume is 1.50 cm<sup>3</sup>?