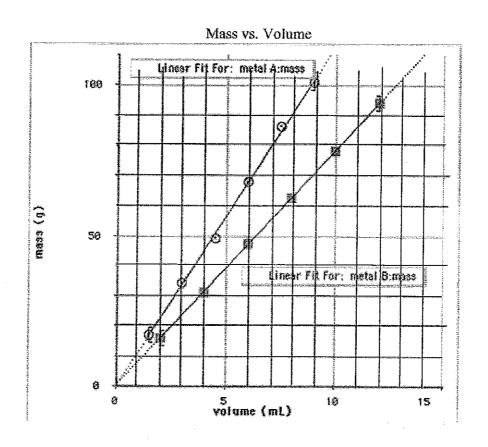
Applied density problems WS



1. Determine the density of each metal. Show all your work and include appropriate units.

- 2. From the graph, estimate
 - a. the mass of 5.0 mL of metal A.
 - b. the volume of 70 g of metal B.
 - c. mark on the graph how you found the answers above

4.	Ethanol has a density of 0.789 g/mL. a. What is the mass of 225 mL of ethanol?
	b. What is the volume of 75.0 g of ethanol?
5.	The cup is a volume widely used by cooks in the U.S. One cup is equivalent to 225 mL. If 1 cup of olive oil has a mass of 205 g, what is the density of olive oil in g/mL?
6.	What would you expect to happen if the cup of olive oil is poured into a container of ethanol? Why?
Go 7.	old has a density of 19.3 g/cm ³ . A cube of gold measures 4.23 cm on each edge: What is the volume of the cube?
8.	What is its mass?
9.	A standard backpack is approximately 30cm x 30cm x 40cm. Suppose you find a hoard of pure gold while treasure hunting in the wilderness. How much mass would your backpack hold if you filled it with the gold? An average student has a mass of 70 kg. How do these values compare?