# MiSP Density Worksheet #3 Assessment, L1

Name _____   Date _____

1. Think about when your class observed three liquids poured into a container and they formed layers: first syrup, then water, and then oil. Three liquids found in many households are listed with their densities below. Label the beaker to show where each of those liquids would be if they were put in layers into the beaker.

Liquid	Density
Glycerol	**1.3 g/ml**
Mineral Oil	**0.8 g/ml**
Acetone	**0.7 g/ml**
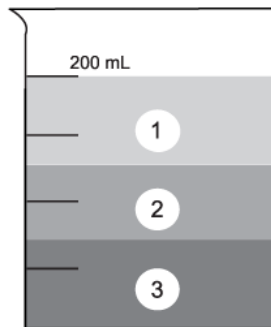
1. _____

2. _____

3. _____
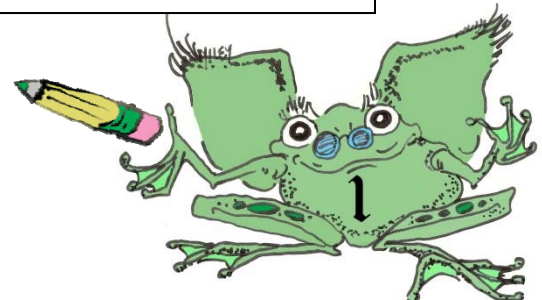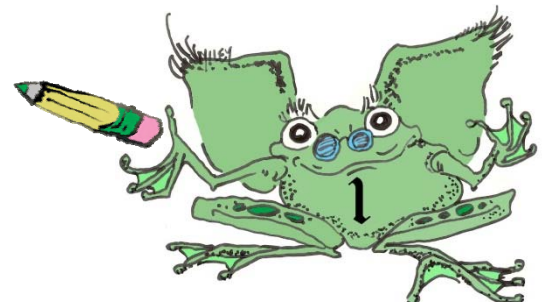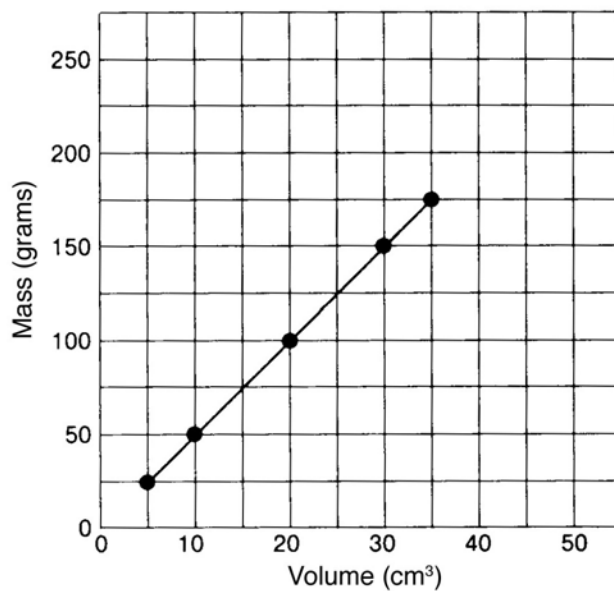
2. Calculate the mass of a 10 ml volume of gasoline with a density of 0.7 g/ml. SHOW ALL WORK.

3. Calculate the volume of a 20 g sample of water. Remember that the density of water is 1 g/ml. SHOW ALL WORK.

Refer to the graph below to answer questions 4–6 (L1), 4–7 (L2), and 4–10 (L3). (Note: 1 cm^3 is the same as 1 ml.)

Mass and volume for five samples of the mineral pyrite.

4. According to the graph above, what is the density of pyrite? Show your work.

5. If a sample of pyrite has a volume of 50 cm^3, what is its mass (g)? Show your work.

6. Which diagram below best represents what a graph would look like if the density of pyrite and the density of water (1.0 gram/cm^3) are plotted on the same graph?