

Name: \_\_\_\_\_

Period: \_\_\_\_\_

### **Lesson 10 – Density Quiz**

After taking your notes answer the following questions and submit them next class.

1. If you filled a graduated cylinder with water, gasoline, and oil, in what order would the substances appear from top to bottom?

<b>Substance</b>	<b>Density (g/mL)</b>
Copper	8.89
Gasoline	0.68
Water	1.00
Silver	10.5
Oil	0.75

- a. Water, Oil, Gasoline  
b. Gasoline, Oil, Water  
c. Gasoline, Water, Oil  
d. Oil, Gasoline, Water
2. Using water displacement, a student measures the mass of a sample of plastic as 20.05 g and the volume as 8.71 mL. Which of these is the density of the plastic?
- a. 2.30 g/mL  
b. 0.434 g/mL  
c. 175 g/mL  
d. 174.6 g/mL
3. What is the density of the metal, given the data below?

Mass of metal	25.5 grams
Volume of water in graduated cylinder without metal	10.5 mL
Volume of water in graduated cylinder plus metal	35.2 mL

- a. 1.03 g/mL  
b. 1.15 g/mL  
c. 0.969 g/mL  
d. 0.867 g/mL