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

**Density Worksheet 3**

1. The density of copper is 8.9 g/cm3. What is the mass of 5.67 cm3 of copper?

2. We know that 250 cm3 of water at 4°C has a mass of 64.3g. What is the density of water?

3. Sulphur has a density of 2.0g/cm3. A block of Sulphur has a mass of 64.3g. What is the volume of the block?

4. A pebble in a graduated cylinder of water raised the water level from 10.1mL to 25.2mL. The mass of the pebble could not be determined; however the density of the pebble is 2.0 g/cm3. What is the mass of the pebble?

5. A piece of silver has a volume of 10.0cm3, and a mass of 105.0g. What is the density of silver?

6. The density of magnesium is 1.75 g/mL. A chunk of magnesium has a volume of 10.1cm3. What is the mass?

7. A block of wood has a mass of 250g and a density of 0.5g/cm3. What is the volume?

8. A block of wood has the following measurements: length = 15mm, width = 2.0cm, height = 45mm. If the mass of the block is 47.25g, what is the density?

9. The density of a bolt is 6.0 g/cm3. The level of a graduated cylinder with the bolt was at 25mL. When the bolt was removed, it was 15.5 mL. What is the mass of the bolt?

10. What is the volume of a piece of plastic whose density is 4.0 g/cm3, and whose mass is 48.0g?