Density Problems WS#2

Name:

- 1. The mass of a spoon is 7.5 grams and its volume is 3.2 mL. What is the density of the toy spoon?
- 2. A mechanical pencil has the density of 3 grams per cubic centimeter. The volume of the pencil is 15.8 cubic centimeters. What is the mass of the pencil?
- 3. A screwdriver has the density of 5.5 g/cm³ and a mass of 2.3 g. What is the screwdriver's volume?
- 4. The density of a sample of gold is 19.32 g/cm³. The volume is 48.9 cm³, what is the mass?
- 5. Calculate the density (g/cm^3) of an object with a mass of 28.461 g and a volume of 5.26 cm³.
- 6. The volume of a certain wooden block is 63 cm³. The mass is 11.392 g. Find the density.
- 7. If the mass of a piece of copper is 26.326 g and it density is 4.44 g/cm^3 , calculate the volume.
- 8. Sodium has a density of 1.95 g/cm³. If the volume of some sodium is 9.0 cm³, what is the mass?
- 9. What is the density of an element if it has a mass of 43.2 g and a volume of 96.5 mL?
- 10. A sample of a gas has a volume of 4000 mL and a mass of 4.922 g. What is its density?
- 11. Mercury's density is 13.6g/mL. What is the volume of a sample that has a mass of 2242 g?
- 12. If a liquid has a density of .880g/mL, what volume of this liquid would have a mass of 54 g?
- 13. What is the mass of 25 mL of a liquid if its density is 1.25 g/mL?
- 14. What is the mass of .025 mL of oxygen gas if its density is 1.43 g/mL?
- 15. The density of an acid is 1.85 g/mL. What volume of the acid would have a mass of 64 g?