

**Geometry**  
**Homework: Density**

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

- 1) What is the mass of a  $350 \text{ cm}^3$  sample of pure silicon with a density of  $2.336 \text{ g/cm}^3$ ?
  
  
  
  
  
  
  
  
  
  
  - 2) Pure gold has a density of  $19.32 \text{ g/cm}^3$ . How large would a piece of gold be if it had a mass of  $318.97 \text{ g}$ ?
  
  
  
  
  
  
  
  
  
  
  - 3) The density of lead is  $11.342 \text{ g/mL}$ . What would be the volume of a  $200.0 \text{ g}$  sample of this metal?
  
  
  
  
  
  
  
  
  
  
  - 4) The mass of a toy spoon is  $7.5 \text{ grams}$ , and its volume is  $3.2 \text{ ml}$ . What is the density of the toy spoon?
  
  
  
  
  
  
  
  
  
  
  - 5) A mechanical pencil has the density of  $3 \text{ grams per cubic centimeter}$ . The volume of the pencil is  $15.8 \text{ cubic centimeters}$ . What is the mass of the pencil?
  
  
  
  
  
  
  
  
  
  
  - 6) A screwdriver has the density of  $5.5 \text{ grams per cubic centimeter}$ . It also has the mass of  $2.3 \text{ grams}$ . What is the screwdriver's volume?
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