Skill Practice 7

Density Practice

Name: _____

Date: _____

1. What is the density of a rock that has a mass of 234 g and a volume of 7.9 cm^3?

   26.9 g/cm^3

2. A piece of metal that has a density of 5.2 g/cm^3 and a mass of 100 g was placed in a full jar of water. How many mL of water spilled out of the jar? Note: one cm^3 = one mL.

   19.2 mL

3. A huge meteor had a mass of 3.2×10^{12} g. If the density of the meteor was 4.2 g/cm^3, what was the volume of the meteor?

   7.6×10^{11} cm^3

4. Gold was mined in California and divided into 1.5 kg pieces. Each piece of gold was a perfect cube 8.1 cm tall. What was the density of the gold?

   0.0028 kg/cm^3

5. A very large boulder with a volume of 1200 L has a mass of 1.4×10^9 g. What is the density of the boulder?

   1,200,000 g/L

6. What is the density of a piece of wood that has a mass of 2.74 g and a volume of 3.10 cm^3?

   0.884 g/cm^3

7. Find the volume of a liquid if 32.5 g of the liquid has a density of 0.852 g/mL.

   38.1 mL