Name _____ Period: _____ #: _____

Density Practice Homework Worksheet

Assigned: 2/5/20 Turned in:_____

Directions: Solve each problem below. Show your work (1 point) and circle your answers (1 point).

Example: A student has a sample of aluminum that has a mass of 27 g and a volume of 10 cm^3. What is the density of aluminum?

Density = mass/volume

Density = 27 g / 10 cm^3

Density = 2.7 g/cm^3

1. A loaf of bread has a mass of 500 g and volume of 2500 cm^3. What is the density of the bread?

2. A block of wood has a mass of 6.0 g and a volume of 12.0 cm3. What is the density of the block of wood?

3. The density of a substance is 4.0 g/cm3. If a sample of the substance has a volume of 25 cm3, then what is its mass? (Hint: Use the equation: mass = density × volume.)

4. You have a lead ball with a mass of 420 g. The density of lead is 10.5 g/cm3. What is the volume of the ball? (Hint: Use the equation: volume = mass/density.)

5. A student has a rectangular block. It is 2 cm wide, 3 cm tall, and 25 cm long. It has a mass of 600 g. First, calculate the volume of the block:

   Then, use that answer to determine the density of the block: