Name: _____ Date: _____

Calculating Density

Instructions: Perform the following density calculations.

1. What is the density?

   Mass = 44 g
   Volume = 44 mL

   a. 0 g/mL
   b. 44 g/mL
   c. 1 g/mL
   d. 11 g/mL

2. What is the density?

   Mass = 120 g
   Volume = 96 mL

   a. 1.52 g/mL
   b. 0.33 g/mL
   c. 1.20 g/mL
   d. 1.25 g/mL

3. What is the density of a substance that has a mass of 20 g and volume of 10 mL?

   a. 0.5 g/mL
   b. 2.0 g/mL
   c. 10 g/mL
   d. 200 g/mL

4. What is the density of an object that has a mass of 34 grams and a volume of 17 milliliters?

   a. 0.5 g/mL
   b. 51 g/mL
   c. 578 g/mL
   d. 2 g/mL

5. What is the density of an object that has a mass of 92 grams and a volume of 40 milliliters?

   a. 52 g/mL
   b. 0.4 g/mL
   c. 2.3 g/mL
   d. 132 g/mL

6. Aiden found the mass of a rock to be 200 grams. He then found the volume of the rock to be 20 cubic centimeters. What is the density of the rock?

   a. .010 grams/cubic centimeter
   b. .10 grams/cubic centimeter
   c. 100 grams/cubic centimeter
   d. 10 grams/cubic centimeter

7. Gloria needs to find the density of a cube. Each side of the cube measures 3 cm and the mass of the cube is 12 g. What is the approximate density of the cube?

   a. $0.4g/cm^3$
   b. $1.3g/cm^3$
   c. $4.0g/cm^3$

8. Stella's nephew has plastic blocks that he enjoys playing with. One of the blocks has a mass of 15 g and a volume of 5 mL. Find the density of the block.

9. Maria's mom gave her an apple that has a mass of 90 g and a volume of 30 cm^3. What is the apple's density?

10. I find a rock that has a volume of $15cm^3$ and a mass of $45g$. What is the density of the rock?