Name_____ Date_____

Finding the Density of Water

Materials

- 10 ml graduated cylinder
- Triple beam balance
- Water

Procedure

1. Weigh the empty 10 ml graduated cylinder and record its mass._____

2. Next, fill the graduated cylinder with various amounts of water, weighing each amount before filling the cylinder again. Record the mass of each amount. Be sure to subtract the mass of the graduated cylinder from the totals. Find the mass of 2 ml, 5 ml, 7 ml, and 10 ml of water.

_____ - _____ = _____
(Mass of H_2O in grad. cylinder) (Mass of empty grad. cylinder) (Mass of H_2O)

_____ - _____ = _____
(Mass of H_2O in grad. cylinder) (Mass of empty grad. cylinder) (Mass of H_2O)

_____ - _____ = _____
(Mass of H_2O in grad. cylinder) (Mass of empty grad. cylinder) (Mass of H_2O)

_____ - _____ = _____
(Mass of H_2O in grad. cylinder) (Mass of empty grad. cylinder) (Mass of H_2O)

3. Find the density of water in each of these examples using the formula D = M/V.
   - Density of 2 ml =
   - Density of 5 ml =
   - Density of 7 ml =
   - Density of 10 ml =

4. What do you notice about the density of water? (Use the back of this sheet for your answer.)

