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

**Density Worksheet 2**

*Show all your work.*

1. Calculate the density of the following liquids:

a) A liquid with a mass of 20g and 50mL

D= m/v 20/50= 0.4g.mL

b) A liquid with a mass of 100g and 50mL

D= m/v 100/50= 2g/mL

c) A liquid with a mass of 20g and 20mL

D= m/v 20/20= 1g/mL

2. Water has a density of 1 g/mL. What liquid from question #1 is water?

c)

3. What is the density of a 100g cube, with the following dimensions?

Length is 2cm, width is 5cm, and height is 4cm

Volume: 2x5x4= 40cm3

D= m/v 100/40= 2.5g/cm3

4. Substance A has a mass of 15g and a volume of 1000mL. Substance B has a mass of 10g and a volume of 1000mL. Which substance has a greater density? Explain your answer by drawing a diagram to represent the situation.

A) D= m/v 15/1000= 0.015g/mL

B) D= m/v 10/1000= 0.01 g/mL

Substance B has is less dense.

6. Which of the following has a lower density? Explain your answer.

A B

Let’s say that the buckets can hold 1000mL each. And the dots are the mass inside.

A) 4/1000= 0.004g/mL B) 2/1000= 0.002g/mL

So B) is less dense.

7. Which of the following has a lower density? Explain your answers.

A B

1

A) 3/1000mL= 0.003g/mL B) 3/100= 0.03g/mL

So A) is less dense