Name:_____ Class:_____

Virtual Density Lab – Link in eBackpack

http://academic.brooklyn.cuny.edu/geology/leveson/core/graphics/density/density_sim3x.html

Part I - Directions: Use the virtual density lab to find the mass and the volume of each of the unknown rocks. Fill in this chart and then calculate the density of each rock.

Mineral #	Mass weighed on scale	Volume of by Displacement	Density (g/mL) (round to two decimal points)
12			
6			
9			
21			
13			
24			
19			
113			
112			

Part II – Fill in each box to calculate the missing measurement: mass, volume or density. Use the density triangle to help you.

Mass, Volume, or Density?

Density = 2 g/ml **Example** Volume = 25.0 ml m = D x v m = 2 g/ml x 25 ml m = 50 g	Density = 6 g/ml **1** Volume = 42 ml	Mass = 4 grams **2** Density = 2 g/ml
Mass = 18 grams **3** Density = 12 g/ml	Density = 1.0 g/ml **4** Volume = 3 ml	Density = 5 g/ml **5** Volume = 45 ml
Mass = 12 grams **6** Volume = 13 ml	Mass = 12 grams **7** Volume = 16 ml	Mass = 12 grams **8** Volume = 17 ml
Mass = 24.1 grams **9** Density = 12.4 g/ml	Mass = 24.5 grams **10** Density = 22 g/ml	Density = 6.2 g/ml **11** Volume = 12.4 ml