1. The table below shows mass and volume data for baby oil. What happens to the mass of the baby oil as the volume changes?

Mass (g)	Volume (mL)
0.8	1.0
1.6	2.0
2.4	3.0
3.2	4.0

GRAPH THIS DATA PLEASE

2. a) What is the density of the baby oil?
   b) What happens to the density as the mass and volume change?

3. Suppose you were to graph the baby oil data on a graph with mass on the vertical axis and volume on the horizontal axis. Would the slope of the line for the baby oil be shallower or steeper than one for water? (The density of water is 1.0 g/mL.)

4. What is the density of each of the following substances?
   a) 2.0-mL of mercury has a mass of 27.1 g
   b) 0.5-mL of silver has a mass of 5.25 g
   c) 2.5-mL of lead has a mass of 28.5 g

5. If you had 100 mL of each substance in question 4, which one would have the greatest mass?