Density Dunk and More Metric Madness

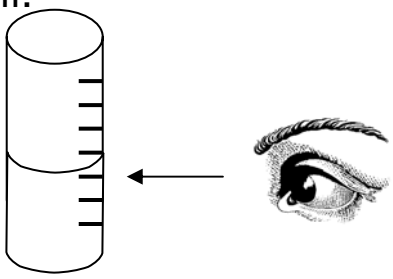
Materials:

1 small rock	Balance to 0.1 g
Graduated cylinder	cm Ruler

Density = Mass/volume

1. Find the mass of your rock to the nearest 0.1 gram.
2. Find the volume of your rock in to the nearest ml.

(BIG HINT: Find volume by water displacement. Don't forget to correctly read the bottom of the meniscus.)



3. Calculate the Density of your rock.
4. Measure the height of your graduated cylinder in mm, cm and m.

Complete the following data table including all appropriate units, show your calculations, and turn the answers in to your teacher.

Mass of rock	_____	Height of GC in m	_____
Volume of water	_____	Height of GC in cm	_____
Volume of water + rock	_____	Height of GC in mm	_____
Volume of rock	_____		
Density of rock	_____		

1. Density Calculation:

2. If a snail could climb the height of your graduated cylinder in 65 sec, what is the snails speed in cm/sec? m/sec? mm/sec? m/hr?
Show all necessary calculations.