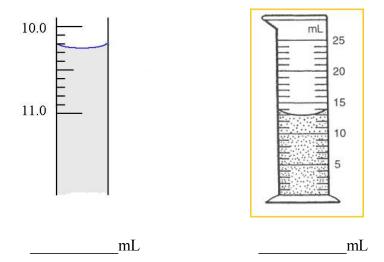
Chemistry 204 Dr. Brian Anderson Experiment 1 Quiz A September 26-27, 2005

Name	Section	TA
Name	Section	171

1. The Greek mathematician Archimedes was asked to determine whether or not a crown was pure gold without cutting it open to find out. Suppose Archimedes measured a gold nugget with a mass of 298.57 grams and a volume of 15.47 mL, and then measured the crown to have a mass of 3011.25 grams and a volume of 156.02 mL. Is the crown pure gold? Show your work.

2. What are the volume readings on this burette and graduated cylinder?



3. Calculate and report the result using the correct number of significant digits:

a)
$$25 + 0.0995 =$$
 b) $7.81 \times 90.00 + \frac{89.76}{4.22} =$