Name	Mark Prior	Date(09/14/05
TA	Carlos Zambrano	_ Section #	52420

Title: "Are the Densities of Coke and Diet Coke Different?"

Objective: To measure and compare densities of Coke and Diet Coke. To evaluate precision of the volume measurements performed with a 5 ml volumetric pipette, a 10 ml graduated cylinder, and a 50 ml burette. To verify that density is an intensive property.

Sample:

Sample temperature:

Part 1. "Are the Densities of Coke and Diet Coke Different?"

My data

	Volumetric Pipette		Graduated Cylinder		Burette	
	Trial 1	Trial 2	Trial 1	Trial 2	Trial 1	Trial 2
Mass of Empty Beaker (g)						
Mass of Beaker + Liquid Sample (g)						
Mass of Liquid Sample (g)						
Volume Delivered (ml)						
Calculated Density (g/ml)						

Sample Calculation for Trial 1:

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Results from the combined class data

Sample	Average Density ± Standard Deviation (g/ml)				
Sample	Pipette	Grad. Cyl.	Burette		
Coke					
Diet Coke					

Part 2. "Does the size of the sample affect the density?"

Sample:

Volume assigned:

	Trial 1	Trial 2
Mass of Empty Beaker (g)		
Mass of Beaker + Liquid Sample (g)		
Mass of Liquid Sample (g)		
Volume Delivered (ml)		

Sample	Density (g/ml) determined from the plot		
Coke			
Diet Coke			