Name: AA Analysis of Copper Report Form			
Data and Results			
Unknown #			
Calibration curve da	ta:		
	Concentration (ppm) 0 1.25 2.50 5.00	Absorbance 0	
Absorbance of dilute	ed vitamin tablet's solution:		
Using the absorbance the copper in the unk	e value for your vitamin tabl known.	let's solution and your stan	dard curve determine
1. Cu concentration mg/liter of diluted sample:			
2. Cu concentratio	n mg/liter of original solution	n before dilution:	
3. The mg of coppe	er per tablet from your conce	ntration in #1 and #2:	
Show calculations	and/or explanation for #1.	#2. and #3 above.	

Chem 121

Dr. Rusay/ Dr. Kutner

Questions:

4. Which procedure: dissolving the tablet and transferring to the volumetric flask, or the dilution in step #2 is most likely responsible for the greatest amount of error in your data? Why?

5. If a sample tablet contained 25 mg Cu, would the dilutions as used in the experimental procedure provide a concentration that could accurately be measured in the atomic absorption spectrophotometer. Explain your answer with supporting calculations. If the sample could not be analyzed, what could be done to correct the problem?