Quantitative Analysis is performed when		
Measuring Mass		
Tare:		
Weighing by difference:		
Analytical Balance		
Measured in g M	leasured in mg	
To calibrate:	icasarca in mg	
Check the leveling bul	bble before taring.	
Top Loading Balance		
Measuring Volume		
TD vs. TC		
To calibrate:		
Uncertainty in measurement	as volume	

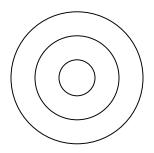
<u>Pipet</u>
To rinse:
Class A Transfer pipet
Mohr (measuring) Pipet
Micropipettor
Don't blow the liquid out with your pipet bulb. Let gravity do its job, then touch the tip of the pipet into your container.
<u>Buret</u>
To Rinse:
 Check stopcock: Be consistent in your readings Dispense any air bubble before taking your first reading
Volumetric Flask
volumetric i lask
Don't ever put a stirring bar in a volumetric flask. Never ever. Why?
Then how do you mix something in a volumetric flask?

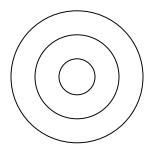
Graduated Cylinder

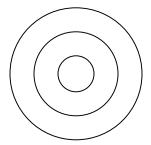
<u>Syringe</u>

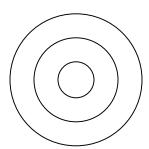
Rule of thumb for reading volume with gradations

Accuracy and Precision









Calculations for Evaluation of Data
Mean
Median
Range
Standard Deviation
Relative Standard Deviation
To <i>calibrate</i> a piece of glassware or other measurement instrument means
Pipet Calibration Factor
A <i>primary standard</i> is
To standardize a solution means
Homework: Complete "First Day Worksheet" on class website, turn in on Thursday, August 23. For more problems to "refresh your memory", do Chapter 1 #11, 13, 15, 16, 19