

Mr.T, being the Chemistry nerd he is, of course has a coffee mug / beaker at home. (see Fig.1) One early Saturday morning (true story) he wondered if the coffee setting (ie.10 fluid ounces) was accurate. Since he had this new hand dandy mug, he could now measure the amount of coffee that actually came out and calculate how accurate it really is. Now, you try ! (see next slide for the actual problem)





Using Dimensional Analysis, calculate the Percent Error of MrTs Keurig Coffee maker ... it was supposed to give 10 fluid ounces of coffee, how *far off* was it ? Hint:

Formula for Percent error is located on Pg.12 (Table T), you'll have to determined what the *measured value* and *accepted value* would be ! :) ** EXTRA CREDIT** *Is this an acceptable margin of error ? Why or Why not?*

