

## Stat 2153 - Statistical Methods

### Discussion Board 5 - Due 2015.07.05

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For this week's discussion board, we are going to continue on with the work done last week on measuring some quantity of an item in your house. We will do a hypothesis test based on the weight/dimension/quantity of whatever you measured. The null hypothesis  $H_0$  should be that the mean value is what the product states. Your alternative hypothesis could be left-tailed, right-tailed or two-tailed, explain why you choose the one you choose. Perform a hypothesis test at both  $\alpha = 0.05$  and  $\alpha = 0.01$  significance levels. One problem that WILL occur with this week's assignment is that you have no given standard deviation. For this week's, compute the standard deviation in your data from last week assuming that the mean you are testing for is the mean of the population you are sampling from. Please show all your work and be careful, hypothesis testing can be confusing. Also, please repost your data from last week when you post this week.