

Name: _____ Section #: _____ Date: _____

Measurement of a Table

Prediction 1

Discuss with your group the number of significant figures that needs to be used to report the measurements taken with the wood sticks. Explain the reasons for your answer.

Prediction 2

Discuss with your group the number of significant figures that needs to be used to report the measurements of length and width taken with the provided 2-meter ruler or tape measure. Explain the reasons for your answer.

Normal Distribution

Explain how you will check if experimental data is normally distributed in this experiment.

Lab Outcome

As a result of the lab, students are expected to report the following: value of the experimental area and its uncertainty; value of the theoretical area and its uncertainty; percent discrepancy between experimental and theoretical results, and analyze if collected experimental data presents normal distribution.

Now follow the procedure described in the Lab Manual to complete the experiment and report the required results on the WebAssign Inlab.

Data Analysis. Calculations.

Below, show all of the work (equations and calculations) you did to answer the Inlab questions.

Lab Close-Up

Group discussion. Essay format.

When taking your measurements, in which part of the lab did you use more significant figures? Why was it possible? Did it affect the final results—the calculations of the areas? Why does it not make sense to talk about the precision of the measurement for the area found with the metric ruler, but it does make sense to ask about the precision of the measurement for the estimated area? Provide reasons for your statement regarding whether measurement of the estimated area is accurate and precise.

Have your TA sign this worksheet below and then upload it to the Inlab.

TA Signature: _____