Prelab Questions

These questions need to be completed before entering the lab. Please show all workings.

Prelab 1

A rectangular object has length $L = 25.3 \pm 0.2$ cm and width $W = 18.6 \pm 0.5$ cm.

• What are the absolute uncertainties in length and width?
• Find the relative uncertainties in length and width.

Prelab 2

Given a set of length measurements: 60.4, 60.0, 61.1, 60.8, 60.6 cm.

• Find the average (mean) length
• Find the standard error (refer to the introductory pages of your Lab Workbook).