

Measurement 2- Uncertainty

Write in proper form. Use standard units if appropriate.

1. A height of 3.456 meters \pm 2 cm
2. A length of 1.5353 meters \pm 1mm
3. A width of 123.987 meters \pm 1m
4. A volume of 500 ml \pm 0.2 ml

Find the following with the same notation.

5. A 500 ml beaker is graduated with increments every 10 ml. It is filled to 355 ml.
6. 100 ml graduated cylinder, graduated with increments every 1.0 ml, graduated cylinder is filled to 24 ml. The meniscus looks on the line.
7. A mass is measured to be 441.5 grams on an electronic balance.
8. Another student finds the mass to be 441.58 grams on a balance, but notices the scale bounces between -0.02 g and 0.02 g with nothing on it.
9. A stopwatch times the fall of an egg drop project to 2.148 seconds. What does this reading not take into account?
10. A height is measured with a meter stick to be 98 centimeters.