

Breakout Rules

- Leader
 - Responsible for managing time, facilitate discussion, make sure questions are answered
- Reporter
 - Take notes, report results after breakout is done, should not do any of the actual work
- Reporter should be first person with last name alphabetically from the letter of the day
- Leader should be second person alphabetically
- After the first breakout session, Leader->Reporter, new leader selected from the group in alphabetical order

Breakout Tips

- Be respectful! I will often be asking questions with some ambiguity. The 'right answer' isn't necessarily obvious, or even clearly defined.
- Should first agree on roles (Leader and Reporter)
- Leader should then decide (possibly by consensus of group) how to attack the problem.
- Multi-part problems can be assigned to different people if desired.
- Group should discuss results. Reporter should note if there is not agreement (this is OK...)
- Before time runs out, Leader should make sure that the group has something to report, even if incomplete.
- You will have the same groups for long enough that everyone gets to be Leader and Reporter. If you are onto the second cycle, people can volunteer.

The Letter of the Day



Question 1

Quick Check 2.2. Rewrite each of the following measurements in its most appropriate form:

(a) $v = 8.123456 \pm 0.0312 \text{ m/s}$

(b) $x = 3.1234 \times 10^4 \pm 2 \text{ m}$

(c) $m = 5.6789 \times 10^{-7} \pm 3 \times 10^{-9} \text{ kg.}$

Question 2

A voltmeter has a stated uncertainty of 1%.

A student writes down a final result in a lab of $V=4.7516$, following what they read off the meter.

- How would you correctly report this voltage?
- The student wants to measure the voltage at two points of a circuit and determine ΔV . The expected size is around 5 mV. Is this going to work? Explain your reasoning...