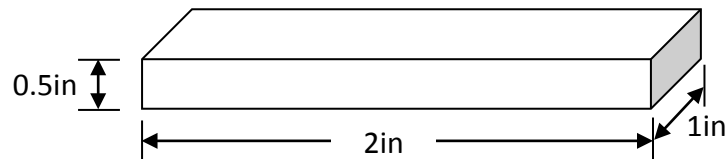


NOTE: This is an individual assignment. You must complete the assignment on your own, although you may discuss the problems with other class members (but no copying of work).

NOTE: Use non-engineering format for questions 1-4,7 and engineering format for questions 5-6. Refer to the presentation entitled, "Intro to Living with the Lab" found on the downloads page under Class 1.

1. Where is the engineering helpdesk located, and when is it open (days and times)?
2. Find the list of desired course outcomes (see website). Choose one outcome, and describe what you already know about this outcome and what you hope to learn.
3. Use the Internet or other sources to learn about electric current, electric resistance and voltage. Using at least two references, define one of these terms in your own words. A short definition using simple words is sufficient. Please list your references.
4. Review the robot assembly presentation with the class 1 notes, and mark the location of the holes that you will need to punch to build your robot.
5. How many atoms are in a block of copper with the dimensions shown below? (HINT: 2.54cm = 1in)
atoms = 1.39×10^{24} atoms



6. You have a small cylindrical piece of aluminum with a height of 3cm and a diameter of 0.5cm. About how many valence electrons does the cylinder contain? (Hint: One atom of aluminum has three valence electrons.) # Valence Electrons = 1.065×10^{23} e⁻
7. Log in to Moodle and complete the Consent Forms assignment. This assignment will be found on the META 120 Moodle page.