

## Module 2 Quiz

June 18, 2014

1. Estimate the number of free electrons in a 3.1 g piece of copper ( $x = 10$ ).  $10 \pm 5$  *What does the phrase "path of least resistance" mean?*

2. 3. the tendency for current to flow through resistors
4. current does as little work as possible along a path between any two points
5. \*current through parallel resistors is greater in the smaller resistor
6. high voltage will always cause high current

If a neutral conductor is brought close to a positively charged insulating wall, what will happen? Explain.  
The conductor will be attracted to the wall because charge inside the conductor will be separated.

If your speed is  $v$ , and you travel for some time  $t$ , how far have you traveled?  $x = vt$