**Answer Key: Electrical Power Review Questions**

**Directions:** The following questions should be used for discussion.

* Explain how you know that your resistors were ½-watt resistors.
  1. The size of the resistor - bigger than a quarter watt, smaller than a 2 watt.
* How much power was applied to the 1,000-ohm resistor? (From lab 3, P=I2R)
  1. 100 mW
* Explain why the fuse blew when 10 volts were applied to the 10-ohm resistor.
  1. The total current would be larger than the fuse rating.
* Explain what happened to the resistor. How much power was being applied after you shorted the fuse?
  1. The total power would be larger than the power rating of the resistor.
* If you had to use a 10-ohm resistor with 10-volts applied, what would you do?
  1. Use a higher power resistor and a higher current fuse.