

Name: \_\_\_\_\_ Date: \_\_\_\_\_ TOC: \_\_\_\_\_

### Ohm's Law

1. Ohm's Law states that \_\_\_\_\_ is equal to the voltage divided by the current.
2. Write the equation for Ohm's Law.
3. Rearrange the equation from Question 3 so that it finds voltage instead of resistance.
4. In a circuit, there is a 0.8-A current in the bulb. The voltage across the bulb is 4.0 V. What is the bulb's resistance?
5. A 10-A current is in the heating coils of a toaster. If the resistance of the coils inside the toaster is  $12\ \Omega$ , what must the voltage be?
6. If a circuit has a resistance of 30.5 ohms and a current of 0.05 amps, what is its voltage?