

Name _____ **KEY** _____ Date _____ Period _____

Ohm's Law

1. In your own words, state the relationship between voltage, resistance and current in a circuit.
 - **As voltage increases, so does current or resistance.**
2. What happens to the current in a circuit if a 1.5-volt battery is removed and is replaced by a 9-volt battery?
 - **The current should be 6 times as much as it was.**
3. How much current is in a circuit that includes a 9-volt battery and a bulb with a resistance of 3 ohms?

$$I = \frac{V}{R} = \frac{9 \text{ V}}{3 \Omega} = 3 \text{ A}$$

4. A circuit contains two 1.5 volt batteries and a bulb with a resistance of 3 ohms. Calculate the current.

$$I = \frac{V}{R} = \frac{3 \text{ V}}{3 \Omega} = 1 \text{ A}$$

5. What is the voltage of a circuit with 15 amps of current and toaster with 8 ohms of resistance?

$$V = IR = (15 \text{ A})(8 \Omega) = 120 \text{ V}$$

6. A light bulb has a resistance of 4 ohms and a current of 2 A. What is the voltage across the bulb?

$$V = IR = (2 \text{ A})(4 \Omega) = 8 \text{ V}$$

7. How many ohms of resistance must be present in a circuit that has 120 volts and a current of 10 amps?

$$R = \frac{V}{I} = \frac{120 \text{ V}}{10 \text{ A}} = 12 \Omega$$

8. You have a large flashlight that takes 4 D-cell batteries. If the current in the flashlight is 2 amps, what is the resistance of the light bulb? (Hint: A D-cell battery has 1.5 volts.)

$$R = \frac{V}{I} = \frac{6 \text{ V}}{2 \text{ A}} = 3 \Omega$$

9. Use the diagram to the right to answer the following problems.

- a. What is the total voltage in each circuit?

$$\text{A} - 6 \text{ V} \quad \text{B} - 12 \text{ V}$$

- b. How much current would be measured in each circuit if the light bulb has a resistance of 6 ohms?

$$\text{A: } I = \frac{V}{R} = \frac{6 \text{ V}}{6 \Omega} = 1 \text{ A}$$

$$\text{B: } I = \frac{V}{R} = \frac{12 \text{ V}}{6 \Omega} = 2 \text{ A}$$

- c. Is the bulb brighter in circuit A or circuit B? Why?

- **The bulb is brighter in Circuit B because it has a higher current.**



Which Law Answer Key

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