

$$R = V / I$$

Resistance is directly related to current and voltage.  
Ohms ( $\Omega$ )

What would produce a current of 200 amps with a potential difference of 2,000 volts?

What is the current produced with a 9 volt battery through a resistance of 100 ohms?

$$I = V / R$$

I – current or rate of electrical flow.  
Amperes (amps)

**How to solve a word problem:**

- 1. Read the word problem carefully.**
- 2. Determine what is being asked for.**
- 3. Write the formula and plug in the known values.**
- 4. Calculate and solve for the unknown value.**
- 5. Write the answer and corresponding unit.**

What voltage produces a current of 50 amps with a resistance of 20 ohms?

$$V = I \times R$$

V-potential difference. Volts (V)

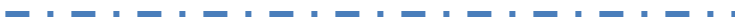
*Current*



*Voltage*



*Resistance*



*Ohm's Law*  
*Foldable*