R = V/ I

Resistance is directly related to current and voltage. Ohms (Ω)

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 x R

V-potential difference. Volts (V)

Resistance

Ohm's Law Foldable

Glue Box

Current

Voltage