

OHM's LAW

- * The amount of electrons moving through a point in a circuit is _ _ _ _ _
- * When electrons move through a circuit they lose energy as heat or light. The amount of energy is called ___potential difference___ or ___voltage drop___.
- * Electrons are slowed down in a circuit because of ___resistance___. This is measured in ___ohms (Ω)___.

These three variables are related in OHM's LAW.

$$V = I \times R$$

Sample problem.

What is the current going through a light bulb if the voltage is 120 V and the resistance is 144 Ω ?

Given: $V = 120 \text{ V}$
 $R = 144 \Omega$

Equation $I = V / R$
 $I = 120 / 144$
 $I = 0.83 \text{ A}$

