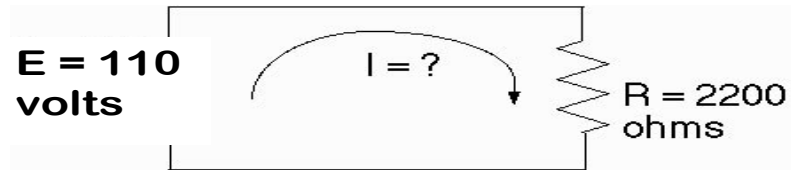


# Electricity and Ohm's Law Worksheets

## Problem #1

A 110 volt wall outlet supplies power to a strobe light with a resistance of 2200 ohms. How much current is flowing through the strobe light?



Choose your answer below

1. 0.5 amps
2. 2.0 amps
3. 0.05 amps
4. 1.0 amps

## Problem #2

A CD player with a resistance of 40 ohms has a current of 0.1 amps flowing through it. Sketch the circuit diagram and calculate how many volts supply the CD player.

Choose your answer below

1. 0.0025 volts
2. 4.0 volts
3. 10.0 volts
4. 400.0 volts

## Problem #3

A 120-volt power source supplies a lamp with a resistance of 192 ohms. What is the current flow of the circuit?

**Problem #4**

What is the resistance of the circuit conductors when the conductor voltage drop is 3 volts and the current flowing through the conductors is 100 amperes?

**Problem #5**

Given:  $I = 15\text{A}$ ,  $R = 2$  , find  $E$

**Problem #6**

Given:  $E = 250\text{V}$ ,  $R = 5$  , find  $I$

**Problem #7**

Given:  $E = 100\text{V}$ ,  $I = 0.01\text{A}$ , find  $R$