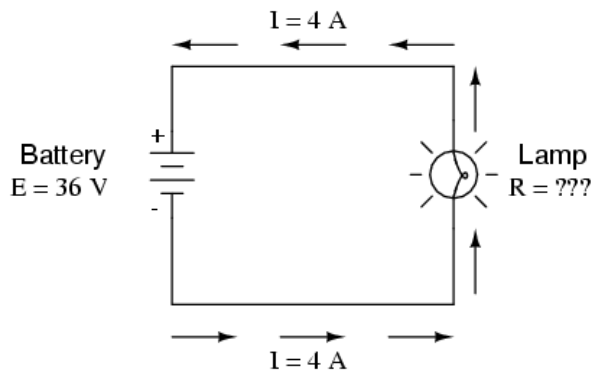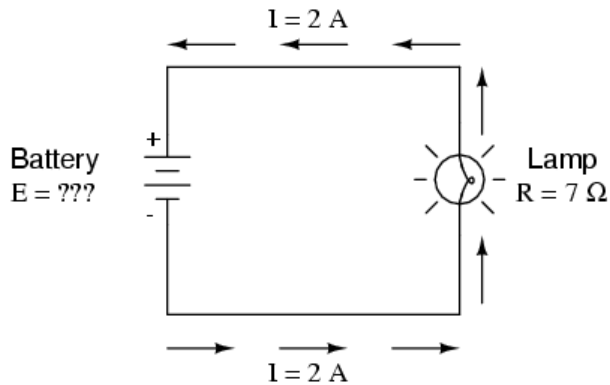OHM'S LAW PRACTICE PROBLEMS

1. 3 V is applied across a 6 Ω resistor. What is the current?

2. A 1.2 kΩ resistor passes a current of 0.2 A. What is the voltage across it?

3. What is the resistance offered by the lamp?

$I = 4$ A
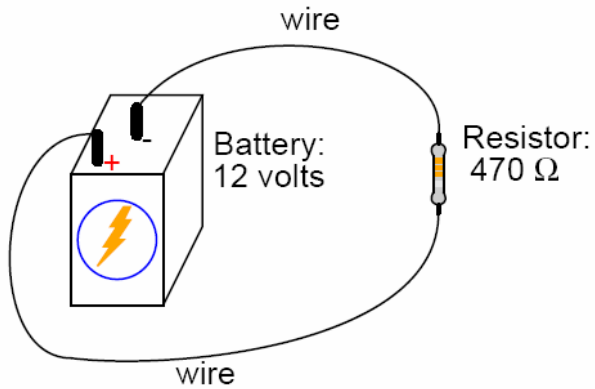
Battery
$E = 36$ V

Lamp
$R = ???$

$I = 4$ A

4. What is the voltage provided by the battery?

$I = 2$ A

Battery
$E = ???$
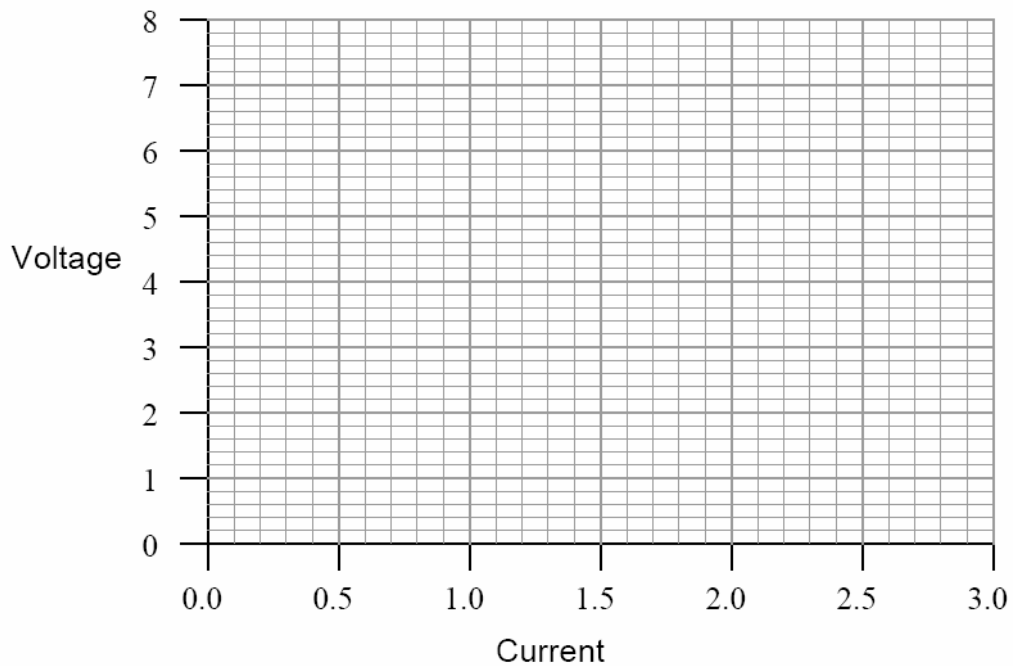
Lamp
$R = 7 \Omega$

$I = 2$ A

5. What is the voltage of a circuit with a resistance of 250 ohms and a current of 0.95 amps?

6. Explain, step by step, how to calculate the amount of current (I) that will go through the resistor in this circuit:

7. Plot these figures on the following graph:

Current	Voltage
0.22 A	0.66 V
0.47 A	1.42 V
0.85 A	2.54 V
1.05 A	3.16 V
1.50 A	4.51 V
1.80 A	5.41 V
2.00 A	5.99 V
2.51 A	7.49 V

8. Explain the relationship between current and voltage: