Name _____ Date _____ Block _____

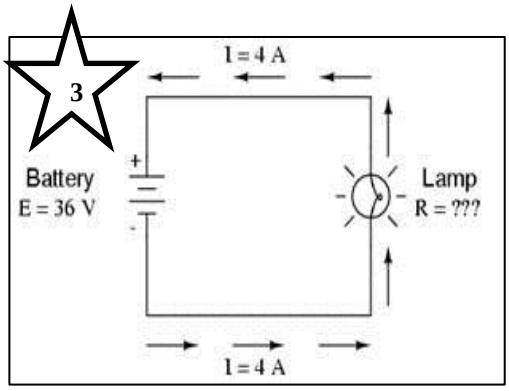
OHM'S LAW PRACTICE PROBLEMS

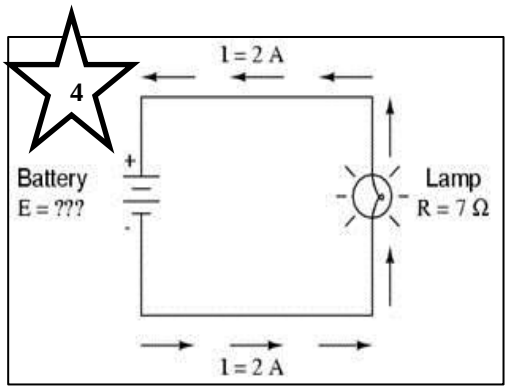
1. 3 V is applied across a 6 **Ω** resistor. What is the current?

2. A 1.2 k**Ω** (1 kΩ = 1000 Ω) resistor passes a current of 0.2 A. What is the voltage across it?

3. What is the resistance offered by the lamp?

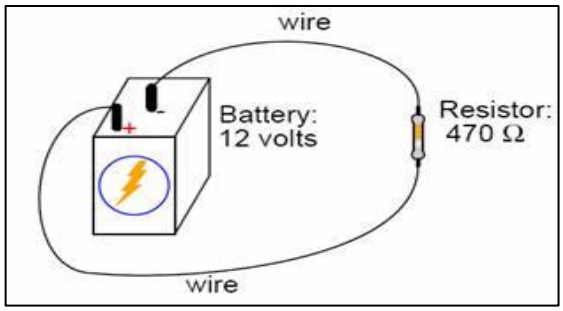
4. What is the voltage provided by the battery?





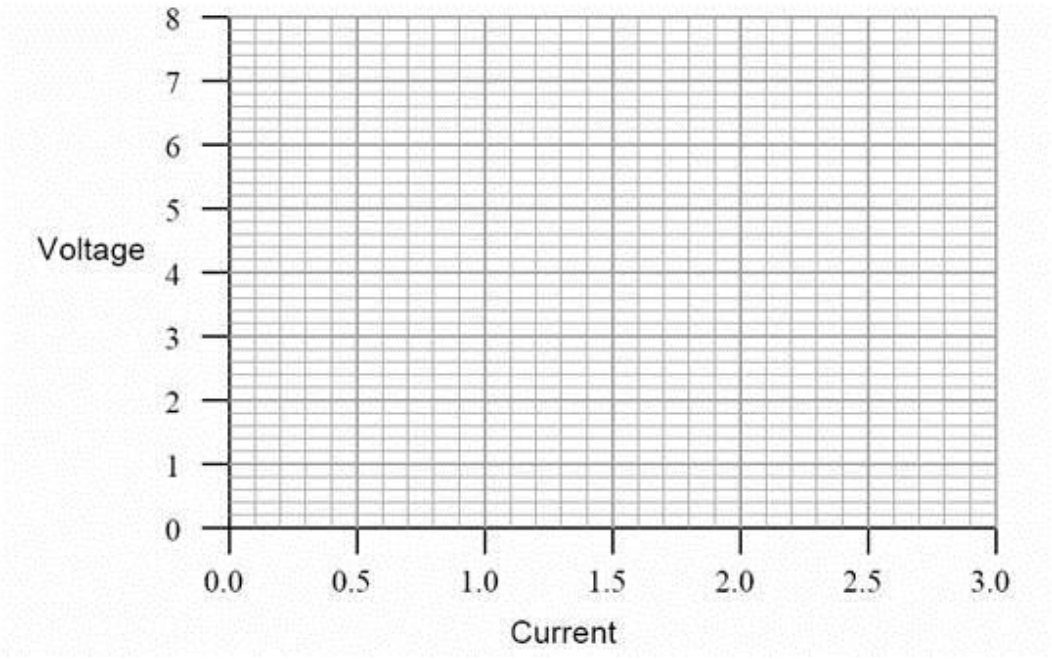
5. What is the voltage of a circuit with a resistance of 250 ohms and a current of 0.95 amps?

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



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: