V = voltage (units: volts, V)	I = current (units: amps, A)	$R = resistance (units: ohms, \Omega)$		
Physics Simple Circuits & Unknown Resistors		Name Date		
Post-lab Questions – 1. What is the equation for Ohm's Law'	?			
2. How can you determine the resistance three graphs?	ee of the resistor by using the equation of the st	traight lines produced on each of your		
3. Use your experimental values for resistance along with the equation below to calculate the percent error for each resistor. Please show your work.				
Percent Error = experimental value – actual (accepted) value x 100 % actual (accepted) value				
Ohm's Law Practice Problems				
	e a 60.0-V battery, an ammeter, and a resistand urrent) and the direction of the current.	ce of 12.5 Ω in series. Indicate the		
	owing a 4.5-V battery, a resistor, and an amme . Choose a direction for the conventional curre			
3. There is a current of 3.00 A throuresistor?	ugh a resistor when it is connected to a 12.0-V	battery. What is the resistance of the		
4. A small lamp is designed to draw (1000 mA = 1 A)	v a current of 3.00 x 10^2 mA in a 6.00-V circui	it. What is the resistance of the lamp?		
5. An electric toaster has a resistand to 125 V?	ce of 12.0 Ω when hot. What will be the currer	nt though it when it is connected		

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