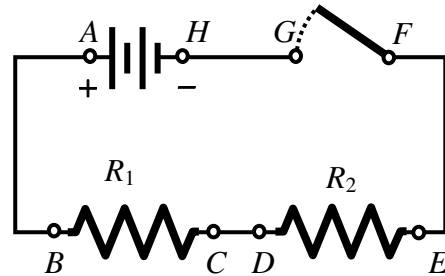Name: _____Date of Lab: _____

Lab Partner: _____

I. Your two resistor values: R_1:_____ ohm R_2:_____ ohm
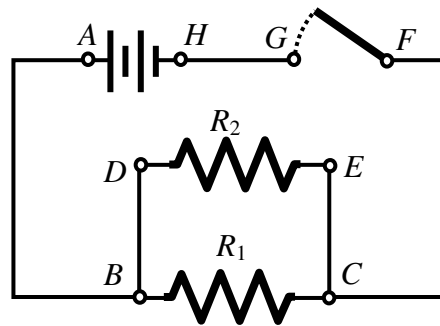
II. Series Circuit:

Voltages			Currents	
$V_{AH} = V_A - V_H$		V	I_{AB}	mA
$V_{AB} = V_A - V_B$		V	I_{CD}	mA
$V_{BC} = V_B - V_C$		V	I_{EF}	mA
$V_{CD} = V_C - V_D$		V		
$V_{DE} = V_D - V_E$		V		
$V_{EF} = V_E - V_F$		V		
$V_{FG} = V_F - V_G$		V		
$V_{GH} = V_G - V_H$		V		
$V_{BE} = V_B - V_E$		V		

III. Parallel Circuit:

Voltages			Currents	
$V_{AH} = V_A - V_H$		V	I_{AB}	mA
$V_{BC} = V_B - V_C$		V	I_{BD}	mA
$V_{DE} = V_D - V_E$		V	I_{BC}	mA
$V_{AC} = V_A - V_C$		V	I_{HG}	mA
$V_{EH} = V_E - V_H$		V		

1. For the series circuit, what is the voltage drop across R_1 plus the voltage drop across R_2? How does this compare to the power supply voltage? Comment.

2. For the parallel circuit, what is the current in R_1 plus the current in R_2? How does this compare to the current coming directly out of the power supply (I_A)? Comment.

3. For the series circuit, which resistor had the largest voltage drop: the larger resistor or the smaller one? Comment.

4. For the parallel circuit, which resistor carried the larger current: the larger resistor or the smaller one? Comment.