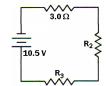
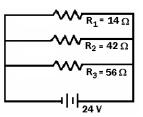
## Questions

- 1. The circuit below shows three resistors connected in series to a 10.5 V battery.
- a. Draw a voltmeter onto the diagram to measure the voltage of R<sub>2</sub>. Draw an ammeter onto the diagram to measure the total current in the circuit.



- b. If voltmeter V<sub>1</sub> reads 4.7 V and voltmeter V<sub>2</sub> reads 2.1 V, what is the potential drop across resistor R<sub>3</sub>?
- c. Calculate the current that passes through  $R_1$  and the following resistors ( $R_2$  and  $R_3$ ) in the circuit.
- d. Determine the resistance of R<sub>2</sub> and R<sub>3</sub>.
- 2. Using the circuit diagram below, solve for the following information.
  - a. Draw a voltmeter onto the diagram to measure the voltage of R<sub>1</sub>. Draw an ammeter onto the diagram to measure the total current in the circuit.
  - b. The voltage across each resistor.
  - c. The current through each resistor.



d. The equivalent resistance of the circuit.

# Electric Circuits

Name

#### Definitions

1.	Current
2.	Resistance -
3.	Resistor -
4.	Variable Resistor
5.	Voltmeter
6.	Ammeter
7.	Power
8.	Series Connection -
9.	Parallel Connection -
10	.Kirchoff's Junction Rule

## Equations

1.		2.	
3.		4.	
	5.		

#### **Series Connection**

#### **Parallel Connection**

6.	9.
J	
7.	10.
1.	13.
8.	11.
δ.	+

## Symbols & Units

Resistance	Potential Difference	Charge	Current	Power	Energy