

# Student Activity Sheet 6-1

## Review

Name: \_\_\_\_\_

Complete the following sentences by filling in the missing word, words, or formula.

1. \_\_\_\_\_ path(s) exist for current in a series circuit.
2. \_\_\_\_\_ In a series circuit,  $E_t =$  \_\_\_\_\_
3. \_\_\_\_\_ Source voltage in a series circuit is equal to the \_\_\_\_\_  
\_\_\_\_\_.
4. \_\_\_\_\_ In a series circuit, the current value is \_\_\_\_\_ throughout the circuit.
5. \_\_\_\_\_ In a series circuit,  $I_t =$  \_\_\_\_\_
6. \_\_\_\_\_ Total resistance in a series circuit is equal to the \_\_\_\_\_  
\_\_\_\_\_.
7. \_\_\_\_\_ Total power consumed in a series circuit is equal to the \_\_\_\_\_  
\_\_\_\_\_.
8. \_\_\_\_\_ You can use a voltmeter to locate an open circuit when troubleshooting a simple series circuit. When the voltmeter is connected across the open in the circuit, the meter will indicate a voltage equal to the \_\_\_\_\_.
9. \_\_\_\_\_ When a resistor is shorted and a voltmeter is placed across the resistor, \_\_\_\_\_ volts would be indicated.