Voltmeter: Measuring Resistance and Amperage

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

Part 1: Resistance

| Snap Circuit Element | Ohms |
| --- | --- |
| Resistor |  |
| Motor |  |
| Speaker |  |
| Switch Open |  |
| Switch Closed |  |
| Electromagnet |  |
| Lamp |  |
| Wire |  |

Part 2: Build Circuit #1 from your Snap Circuit Kit

Measure the amperage between the motor and the battery pack

| Connection | Amps (Switch ON) |
| --- | --- |
| Motor and (+) battery |  |
| Motor w/o fan and (+) battery |  |

Part 3: Closed and Open Circuits

Use the continuity testing ability of your meter to test the switch in Circuit #1. What happens when the switch is closed?