



Parallel Circuits

Activity 1

In your notebook, draw a circuit with a battery, an ammeter, a switch, two resistors, and a voltmeter. The voltmeter should be connected in parallel with one of the resistors. Draw a circuit that is similar to the one shown in Figure 1. Use the same components.

Close the switch and take a reading on the ammeter and the voltmeter. The voltage measured from the voltmeter is the voltage across the resistor. If you know the resistance and voltage, you can calculate the current through the resistor using Ohm's Law.

Activity 2

1. Use the parallel circuit problem type to answer questions 1-3.

1. What is the voltage across each resistor?
2. What is the voltage of each branch?
3. What is the total current provided by the battery?
4. Use Ohm's Law to find the current through each resistor. Compare the total current of the circuit.



2. Use the parallel circuit problem type to answer questions 1-3.

1. What is the voltage across each resistor?
2. What is the voltage of each branch?
3. What is the total current provided by the battery?
4. Use Ohm's Law to find the current through each resistor. Compare the total current of the circuit.



3. Use the parallel circuit problem type to answer questions 1-3.

1. What is the voltage across each resistor?
2. What is the voltage of each branch?
3. What is the total current provided by the battery?
4. Use Ohm's Law to find the current through each resistor. Compare the total current of the circuit.



4. Use the parallel circuit problem type to answer questions 1-3.

1. What is the voltage across each resistor?
2. What is the voltage of each branch?
3. What is the total current provided by the battery?

