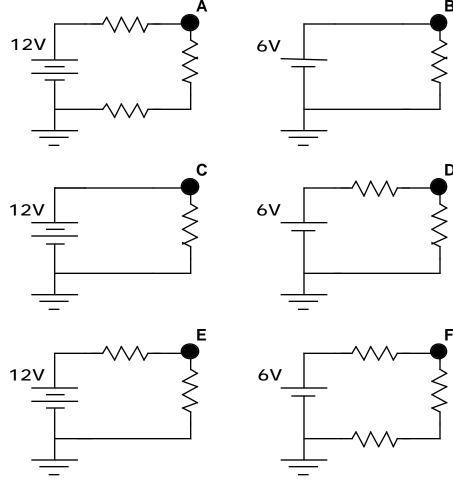
## Simple Resistor Circuits—Voltage Drop 169

All the resistors in the circuits below are identical at  $2\Omega$  each. The batteries are ideal with voltages of 6 or 12 volts as shown. All connecting wires have negligible resistance. Rank the voltage at the upper right-hand corner relative to the ground. Place the highest voltage first and the lowest voltage last.



Highest 1\_\_\_\_\_ 2\_\_\_\_ 3\_\_\_\_ 4\_\_\_\_ 5\_\_\_\_ 6\_\_\_ Lowes

Or, all of the voltages are the same.

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

 Basically Guessed
 Sure
 Very Sure

 1
 2
 3
 4
 5
 6
 7
 8
 9
 10