

Parallel Circuits

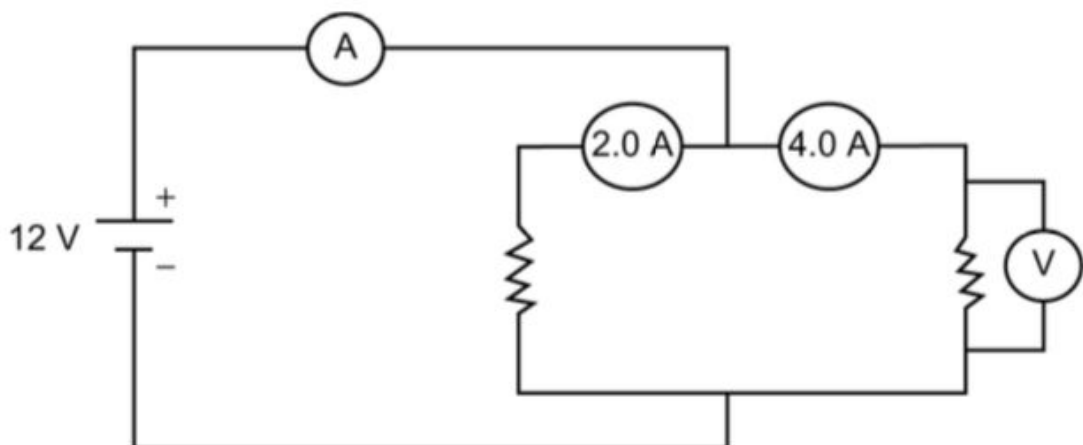
Goal • Review your understanding of parallel circuits.

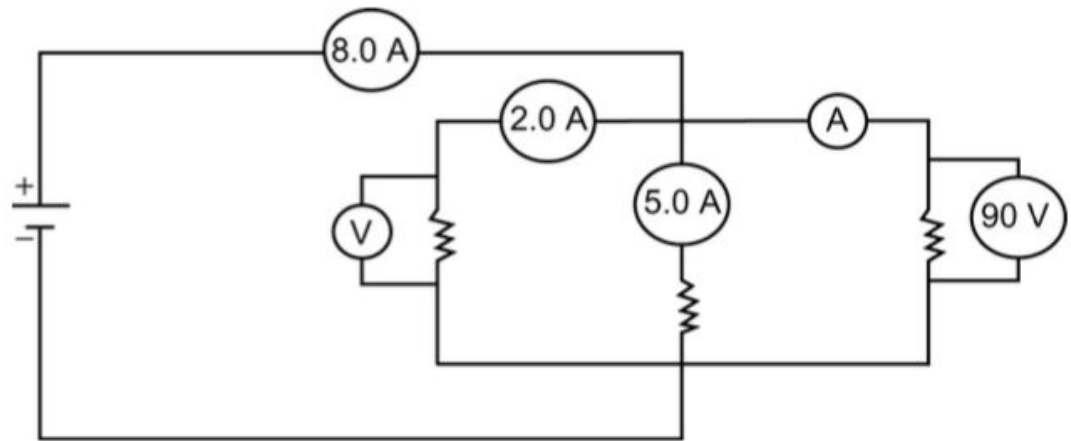
Circle the best term in the parentheses to correctly complete each statement.

1. A parallel circuit has (*only one, more than one*) path for current to travel.
2. Two different resistors are connected in parallel. The current through one of the resistors will be (*equal to, different from*) the current through the other resistor.
3. If two different resistors are connected in parallel, the voltage across one resistor will be (*equal to, different from*) the voltage across the second resistor.
4. By adding a resistor in parallel with an original resistor, the total resistance of the circuit (*increases, decreases*).
5. The total current entering the junction of a parallel circuit must be (*equal to, different from*) the sum of the currents through each branch of the parallel circuit.

Find the unknown voltage at V, and current at A, in each of the following circuits.

6. Voltage = _____ Current = _____





7.

Voltage = _____

Current = _____