



16.4 Series circuits



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- Inexpensive strings of holiday lights are wired with the bulbs in series.
- If you remove one of the bulbs from its socket, the whole string of mini bulbs will go out.







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16.4 Voltage and parallel circuits

 Parallel circuits have two <u>advantages</u> over series circuits.

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- 1. Each device in the circuit has a voltage drop equal to the full battery voltage.
- 2. Each device in the circuit may be turned off independently without stopping the current in the other devices in the circuit.

16.4 Current and parallel circuits

 Each branch works independently so the total current in a parallel circuit is the sum of the currents in each branch.

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