Drawing Series and Parallel Circuit Diagrams

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| 1. A series circuit consisting of:   * 12 V electrical source * open switch * two light bulbs * 10 Ω resistor |  |
| 2. A parallel circuit consisting of:   * 9.0 V electrical source * open switch * three 5.0 Ω resistor |  |
| 3. A circuit consisting of:   * three 1.5 V cells connected in parallel * open switch * two light bulbs connected in series * two 15 Ω resistor connected in parallel |  |
| 4. Draw a circuit diagram consisting of a  9.0 V battery, an ammeter, and a 25 Ω  resistor in series. Include a voltmeter  that is measuring the potential difference  across the resistor. |  |
| 5. Draw a circuit diagram consisting of a  battery made up of two 1.5 V cells, one  closed switch, two lamps, and an  ammeter in series. Show the direction in  which the current flows. |  |
| 6. Draw a circuit diagram consisting  of a battery made up of four 1.5 V  cells, one closed switch, one lamp, two  0.50 Ω resistors in series, and a  voltmeter. Show the direction in which  the current flows. |  |

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**Description Diagram**

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* 12 V electrical source
* open switch
* two light bulbs
* 10 Ω resistor

2. A parallel circuit consisting of:

* 9.0 V electrical source
* open switch
* three 5.0 Ω resistor

3. A circuit consisting of:

* three 1.5 V cells connected in parallel
* open switch
* two light bulbs connected in series
* two 15 Ω resistor connected in parallel



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9.0 V battery, an ammeter, and a 25 Ω

resistor in series. Include a voltmeter

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2. Draw a circuit diagram consisting of a

battery made up of two 1.5 V cells, one

closed switch, two lamps, and an

ammeter in series. Show the direction in

which the current flows.

3. Draw a circuit diagram consisting

of a battery made up of four 1.5 V

cells, one closed switch, one lamp, two

0.50 Ω resistors in series, and a

voltmeter. Show the direction in which

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