Name:

Drawing Series and Parallel Circuit Diagrams

 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 0.50Ω resistors in series, and a voltmeter. Show the direction in which the current flows.	

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Description Diagram

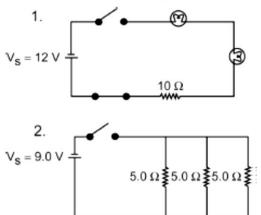
- 1. A series circuit consisting of:
 - 12 V electrical source
 - open switch
 - two light bulbs
 - 10Ω resistor
- 2. A parallel circuit consisting of:
 - 9.0 V electrical source
 - open switch
 - three 5.0Ω resistor
- 3. A circuit consisting of:
 - three 1.5 V cells connected in parallel
 - open switch
 - two light bulbs connected in series
 - two 15 Ω resistor connected in parallel

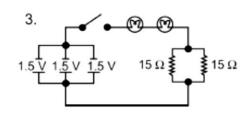
1. Draw a circuit diagram consisting of a 9.0 V battery, an ammeter, and a 25 Ω resistor in series. Include a voltmeter that is measuring the potential difference across the resistor.

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.

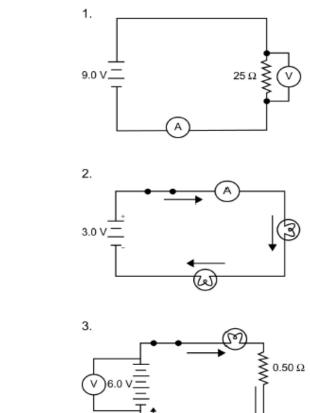
3. Draw a circuit diagram consisting of a battery made up of four 1.5 V cells, one closed switch, one lamp, two 0.50 Ω resistors in series, and a voltmeter. Show the direction in which the current flows.

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BLM 3-30, Designing Circuits



0.50 Ω