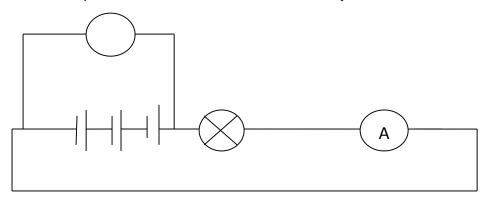
## **Question #61551, Physics / Electric Circuits**

Three 1.50V dry cells are connected in series to give a total voltage of 4.50V. A 12.0W lamp is connected in a circuit with the three dry cells.

a)Draw a schematic circuit diagram showing the dry cells and the lamp. Place an ammeter in the circuit to measure the current through the circuit. Place a voltmeter in the circuit to measure the potential different across the battery.



## The answer to the question.

Indications voltmeter: 4.50 V

Indications ammeter:  $I = \frac{P}{V} = \frac{12 W}{4.5 V} = 2.67 A$ 

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