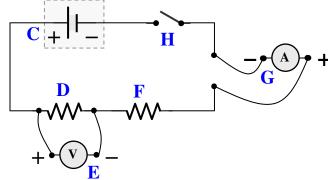
Quiz #4:DC Circuits & Kirchhoff's Laws

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Quizzes that have any marks made in pen rather than pencil will have an automatic -2 added to the grade.

1. Here's a circuit diagram. Identify the parts labeled C through H. Answer "F" has been done for you already...



$$G =$$

Examples: The SI units of distance are meters. The SI units of time are seconds.

- 2. What are the SI units of *electric potential*?
- 3. What are the SI units of *electric current*?
- 4. What are the SI units of *electrical resistance*:
- 5. The symbol for electric current is *I* or *i*, and it represents an electric "flow" similar to water flowing in a pipe. The units are "Amperes". If the "flow" of water in a pipe might be measured as volume per time (perhaps having units of gallons per minute), then Amperes should **also** represent the motion of *something* per time, too. According to the lab manual, what is the word for the "something" that flows through a wire?
- 6. What are the SI units of your previous answer?
- 7. Electric current points in the same direction that [positive][negative] charges move (circle one)
- 8. According to the lab manual, a voltmeter (which measures electric potential difference) is a lot like a resistor. What does the lab manual say about the resistance of a good voltmeter?

The resistance of a good voltmeter is very _____