

Name:

Date:

Period:

Ohm's Law Practice

1. What current flows through a hair dryer plugged into a 110 Volt circuit if it has a resistance of 25 ohms?

Knowns/Unknowns

Plug & Chug

Answer w/ Units

2. A light bulb has a resistance of 5 ohms and a maximum current of 10 A. How much voltage can be applied before the bulb will break?

Knowns/Unknowns

Plug & Chug

Answer w/ Units

3. A television takes in a current of 2 amps. It is plugged into the wall, which provides a potential difference of 120 volts. What is the resistance of the TV?

Knowns/Unknowns

Plug & Chug

Answer w/ Units

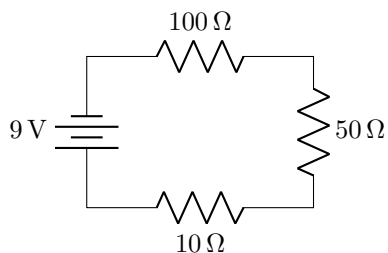
Ohm My Goodness! Isn't this fun? More on the next page...

Name: _____

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4. What is the current through the following circuit? (*Hint: If resistors are in series, you can add the resistances.*)

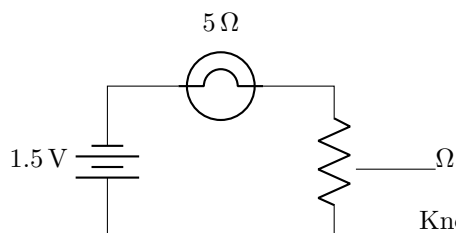


Knowns/Unknowns

Plug & Chug

Answer w/ Units

5. The following circuit has a current of 0.1 amperes. Find the resistance of the resistor.

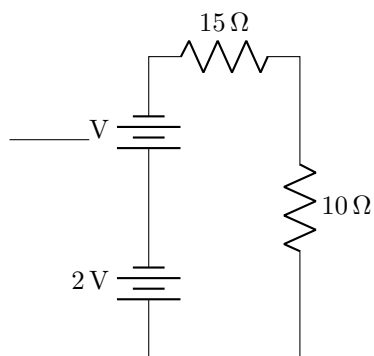


Knowns/Unknowns

Plug & Chug

Answer w/ Units

6. The following circuit has a current of 0.25 amperes. Find the voltage of the second battery.



Knowns/Unknowns

Plug & Chug

Answer w/ Units