

Name: _____

VOLTAGE, CURRENT AND RESISTANCE Worksheet

resistance = potential difference
current

$R = V/I$ Units: R is measured in ohms (Ω) V is measured in volts
 I is measured in amperes (A)

1. Solve for the unknown measurement.

a) $I = 10 \text{ A}$ $R = 1500 \Omega$ $V = ?$	b) $I = ?$ $R = 200 \Omega$ $V = 240 \text{ V}$	c) $I = 15 \text{ A}$ $R = ?$ $V = 110 \text{ V}$
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2. Find the unknown quantity (CONVERT to the base unit FIRST, then solve).

a) $I = ?$ $R = 20 \Omega$ $V = 350 \text{ mV} = \text{_____ V}$	b) $R = ?$ $I = 25 \text{ mA} = \text{_____ A}$ $V = 110 \text{ V}$	c) $I = 15 \text{ A}$ $R = 7333 \text{ m}\Omega = \text{_____ }\Omega$ $V = ?$
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WORD PROBLEMS → Be sure to check your units before solving the following questions!

3. How much resistance does a light bulb create if it has a current of 25 mA around it in a 9 V circuit?

$I = 25 \text{ mA} = \text{_____}$

$V = \text{_____}$

$R = ?$

4. How much current flows through a 16 V battery that has a resistance of 5.1 Ω ?

5. The human body offers a very small amount of resistance (let's say 1 $\text{m}\Omega$ for argument). If a lightning bolt (said to have 1.21 GV of potential according to a famous movie called *Back to the Future* released in 1984) hits you, how much current is flowing through your body? PS. It takes a mere 50 mA of current to kill a human being.

Physical Science If8767 Ohms Law Problems

Ying-Ying Zheng



Physical Science If8767 Ohms Law Problems:

Physical Science If8767 Ohms Law Problems Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Physical Science If8767 Ohms Law Problems**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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