

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

R Barnett



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