Name: ____

VOLTAGE, CURRENT AND RESISTANCE Worksheet

resistance = potential difference current R = VUnits: R is measured in ohms (Ω) IV is measured in vol 1 is measured in amperes (A)

Solve for the unknown measurement.

a) 1 = 10 A R = 1500 Ω V = 7	b) 1=? R = 200 Ω V = 240 V	c) I = 15 A R = 7 V = 110 V	-

Find the unknown quantity (CONVERT to the base unit FIRST, then solve).

a) I = ?
R = 20 Ω
V = 350 mV = _____V

b) R = ?
I = 25 mA = ____A
V = 110 V

c) I = 15 A
R = 7333 mΩ = ____Ω
V = ?

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 mA =

R = 7

- 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 mΩ 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 1934) hits you, how much current is flowing through your body? PS. It takes a mere 50 mA of current to kill a human being.

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Jin-Ying Zhang

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