

QUESTIONS TO HAND IN – EXPERIMENT 6

NAME _____

LAB INSTRUCTOR _____ LAB DAY/TIME _____

1. A 9 volt battery powers a portable radio. The radio draws a current of 150 milliamperes. What is its resistance?

2. The resistance of a flashlight bulb is 11.5 ohms when it is lighted. How much current must a 6 volt lantern cell provide it for proper operation?

3. To operate properly, a voltmeter must be placed (choose one)
 - a. across the element to be measured
 - b. between the element to be measured and the rest of the circuit
 - c. on top of the element to be measured

4. To operate properly, an ammeter must be placed (choose one)
 - a. across the element to be measured
 - b. between the element to be measured and the rest of the circuit
 - c. on top of the element to be measured

5. The resistance of a light bulb filament increases when it heats up. How do you expect the resistance values at currents of 0.5 A and 1.0 A to compare?