

Chapter 7 worksheet Electricity

Answer the following problems on a separate sheet of paper.

1. Describe how you could quickly determine whether a string of lights is wired in series or in parallel.
2. Why does a spark jump from your hand to the doorknob as you reach for the door after walking across a carpeted floor?
3. Explain why clothes stick together when they are removed from a

Problems: Be Sure to SHOW ALL WORK FOR PROBLEMS!

21. A light bulb with a resistance of $160\ \Omega$ is plugged into a 120 V outlet. What is the current flowing through the bulb?
22. Find the current flowing through a $20\ \Omega$ wire connected to a 12 V battery.
23. What is the current flowing through a $20\ \Omega$ wire connected to a 6 V battery?
24. The current flowing through a lamp is 1.5 A. It is plugged into a 120 V outlet. What is the resistance of the lamp?

