

**Do Now:**

(1) What is electric circuit?

(2) Convert the following picture into schematic diagram.



**Electric Circuits**

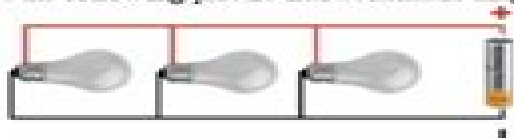
1. Electric components are commonly connected in one of the two ways:



2. Convert the following picture into schematic diagram.



3. Convert the following picture into schematic diagram.



**Series Circuits**

4. Label every component of the circuit, identify each of the voltage and current.



5. Relation among all the currents:

\_\_\_\_\_

6. Relation among all the voltages:

\_\_\_\_\_

7. Find the equivalent resistance ( $R_{eq}$ ):

\_\_\_\_\_

8. Write the Ohm's law using (a) individual resistance ( $R_1$  &  $R_2$ ), and (b) equivalent resistance ( $R/R_{eq}$ ):

(a) \_\_\_\_\_

(b) \_\_\_\_\_

9. What will happen to the resistance if the number of series devices increases?

\_\_\_\_\_

10. Why is the overall resistance of the circuit increased as the number of devices increases?

\_\_\_\_\_

11. Total resistance \_\_\_\_\_ any individual resistance.

12. Find the total amount of power ( $P$ ) in terms of individual power ( $P_1$  &  $P_2$ ) consumed by each resistor:

\_\_\_\_\_

13. Summary of series circuits:

I: \_\_\_\_\_

V: \_\_\_\_\_

R: \_\_\_\_\_

P: \_\_\_\_\_

# Chapter Electric Current Circuits Physics Test Answers

**EW Minium**



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