

Name: _____

Period: _____

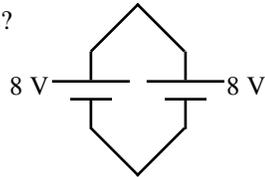
HW Unit 9:6—Types of Circuits
Mr. Murray, IPC
cstephenmurray.com

A-day: Due Fri., 3/30 (Assig: 3/28)
B-day: Due Wed., 4/4 (Assig: 3/29)

- Series or Parallel?
 - ___ If one bulb is unscrewed, they both go off.
 - ___ Both devices have the same current.
 - ___ If one light bulb is unscrewed, the other stays on.
 - ___ Both devices have the same voltage across them.
 - ___ Has more than one path.
 - ___ Has only one path for the electricity.
 - ___ Has a place where the current splits and joins again.

- Are these batteries in parallel or series?

- What is the total voltage?



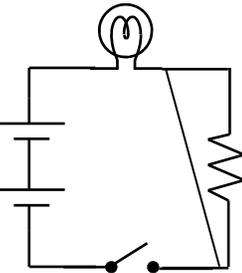
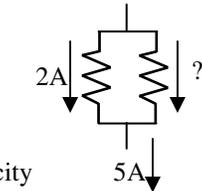
- How much current is in the second resistor shown?

- What do we call a place where electricity splits in a circuit?

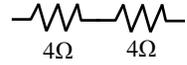
- Will the light bulb light up?

- Why or why not?

- What happens if you put a wire from the positive to the negative end of a battery?



- Parallel or series?
- What is the total resistance?
- Use the choices at the right to tell someone how to make a series circuit: (can use them more than once).
- Use the same words to tell someone how to make a parallel circuit.

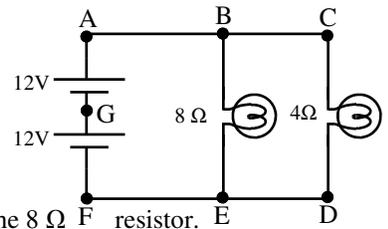


*Battery; light bulb;
wire; split; join; two
bulbs next to each
other.*

HW Unit 9:6

- Use the diagram to answer:

- Total voltage:
- Parallel or series?
- Which light bulb will have more current flowing thru it?
- What is V from F to D?
- $V_{BE} =$
- Find the current going thru the $8\ \Omega$ resistor.



- Find the current going thru the $4\ \Omega$ resistor.
- What is the I_T ?
- BONUS: Find R_T :