

Parallel Circuits

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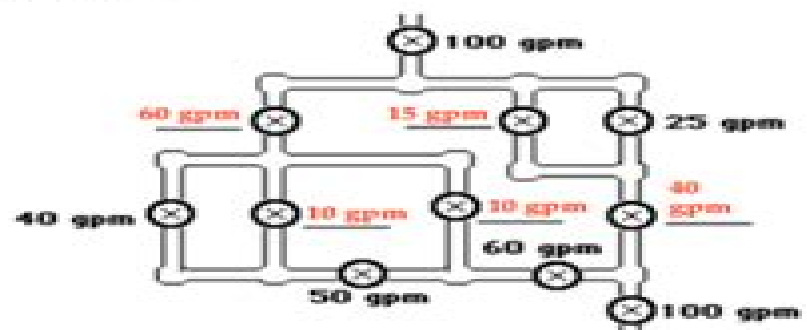
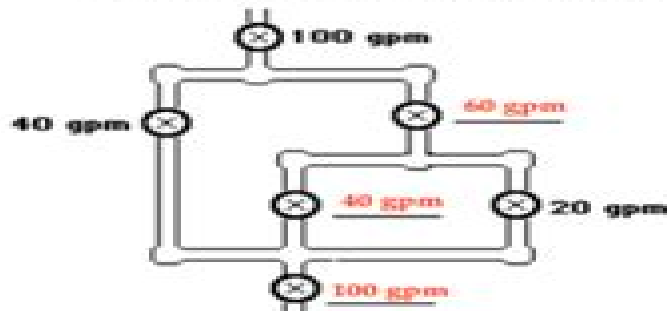
MOP Connection: Electric Circuits: sublevels 8, 10 and 11

References

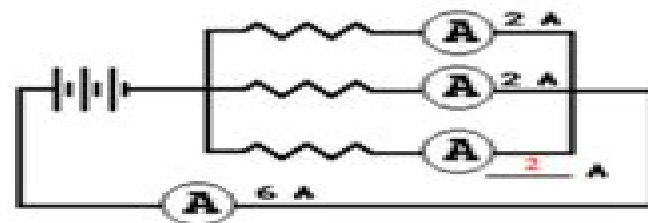
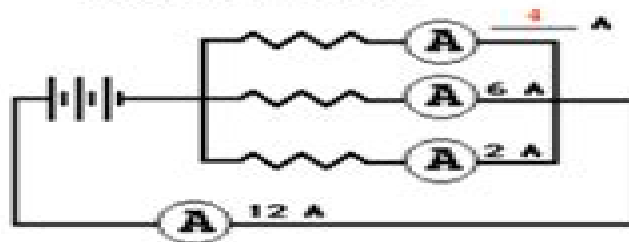
- A circuit in which all charge follows a single pathway is a **series** circuit; a circuit in which charge follows multiple pathways is a **parallel** circuit.
a. series, parallel b. parallel, series
- For a parallel circuit: as the number of resistors being used within the same parallel circuit increases, the overall resistance value **decreases** (increases, decreases) and the overall current value **increases** (increases, decreases).
- Household circuits are connected in parallel so that **B**. Select all that apply.
a. houses get the same effect with less current and thus save on energy costs
b. the turning off of one appliance does not result in the shut down of others
c. the hazard of electrocution and overheating of circuits is avoided

Water Analogy:

4. When the water flow (or charge flow) is divided into two or more separate pathways (as in a parallel circuit) the sum of the current in each individual pathway equals the total current. Utilize this principle to fill in the blanks in the following two diagrams. The meters in the diagram are measuring water flow rates in gallons per minute ("gpm").



5. Apply the same principle to fill in the blanks in the following diagrams for charge flow (i.e., current) through a parallel circuit.



Physics Classroom Electric Circuits Answer Key

Victor M. Corman



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