

Parallel Circuits

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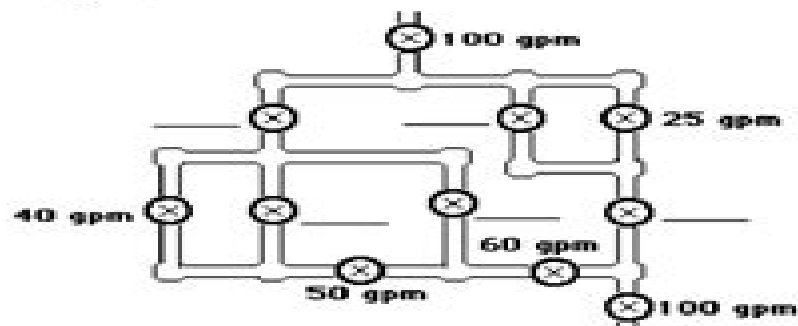
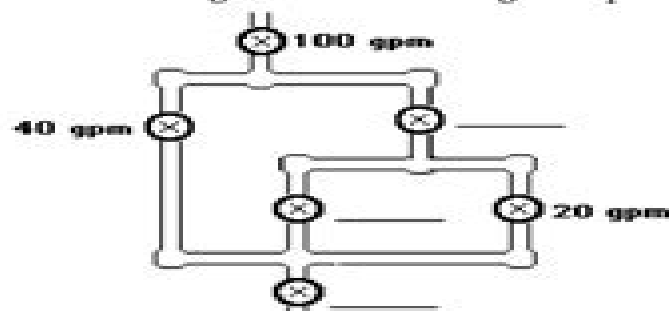
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Reviews

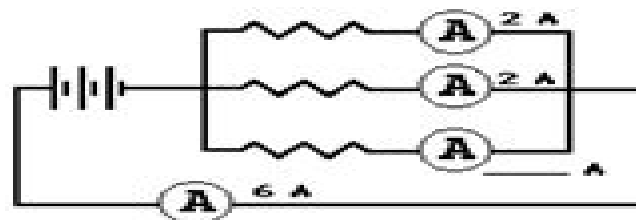
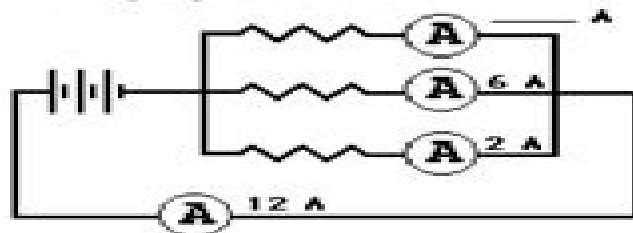
- A circuit in which all charge follows a single pathway is a _____ circuit; a circuit in which charge follows multiple pathways is a _____ circuit.
a. series, parallel b. parallel, series
- For a parallel circuit: as the number of resistors being used within the same parallel circuit increases, the overall resistance value _____ (increases, decreases) and the overall current value _____ (increases, decreases).
- Household circuits are connected in parallel so that _____. 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 Analysis

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.



Parallel Circuits Physics Classroom Answers

R Bogdan



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American Journal of Physics ,1993 Resources in Education ,1986 Physics Holt Rinehart & Winston,2001-02

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