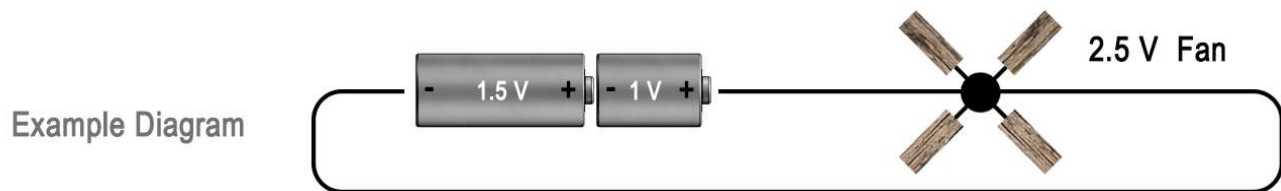


Reading Comprehension Word Problem: Lab Experiment 2



Read the story below and then answer the questions.

Penny and Jimmy are to use a collection of batteries to power 2 different fan experiments at the same time by exactly matching each fan's voltage rating. If the batteries are connected end-to-end (in series) and then connected to the fan, the voltage (V) of the batteries can just be added together to match the voltage requirement of each fan.



Experiment 1 - Power a 6V fan.

Experiment 2 - Power a 9V fan.

Materials and Equipment list: Two 4V batteries, One 5V battery, One 1.5V battery, One .5V battery, One 6V fan, One 9V fan, wire, and connectors

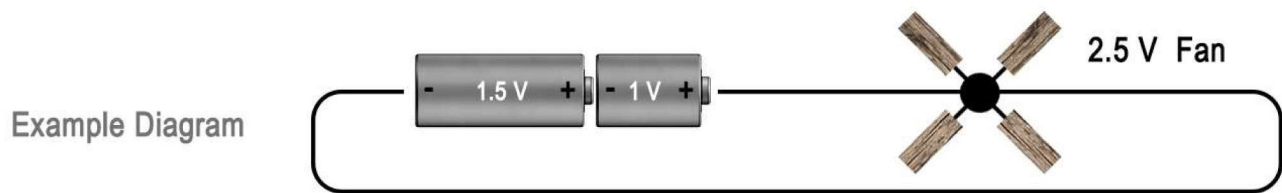
1. Which batteries should be used to power Experiment 1? _____
2. Which batteries should be used to power Experiment 2? _____
3. If all of the available batteries were used at once, what voltage fan could they power? _____
4. Using the available batteries could they exactly match the voltage rating of a 3V fan? _____ What about a 2v fan? _____

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Experiment 1 - Power a 6V fan.

Experiment 2 - Power a 9V fan.

Materials and Equipment list: Two 4V batteries, One 5V battery, One 1.5V battery, One .5V battery, One 6V fan, One 9V fan, wire, and connectors

1. Which batteries should be used to power Experiment 1? 4V, 1.5V and .5V
2. Which batteries should be used to power Experiment 2? 4V and 5V
3. If all of the available batteries were used at once, what voltage fan could they power? 15V
4. Using the available batteries could they exactly match the voltage rating of a 3V fan? No What about a 2v fan? Yes