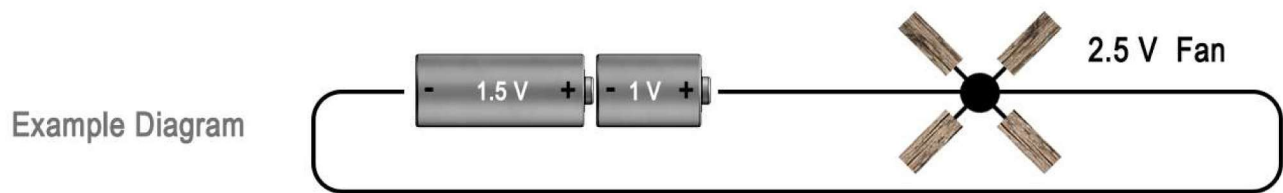


Reading Comprehension Word Problem: Lab Experiment 3

Read the story below and then answer the questions. (solutions)

Amy and Shannon 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 be added together to exactly match the voltage requirement of each fan.



Experiment 1 - Power a 7.5V fan.

Experiment 2 - Power a 4.5V fan.

Materials and Equipment list: One 2.5V battery, One 3V battery, One 5V battery, One 1.5V battery, One 7.5V fan, One 4.5V fan, wire, and connectors

1. Which batteries should be used to power Experiment 1? 2.5V and 5V
2. Which batteries should be used to power Experiment 2? 3V and 1.5V
3. If all of the available batteries were used at once, what voltage fan could they power? 12V
4. Using the available batteries could they exactly match the voltage rating of a 4V fan? Yes What about a 2v fan? No