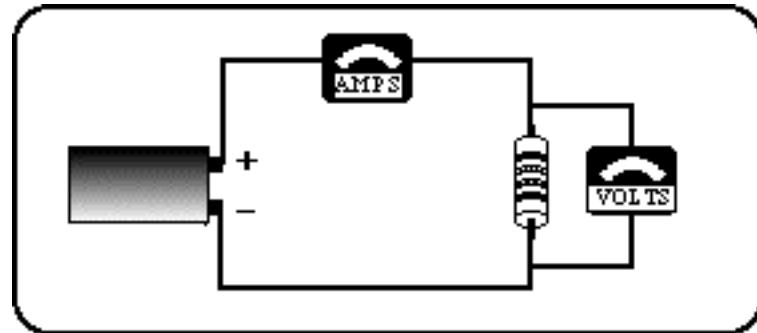


Physics 141

Battery Test

Today's Concepts:

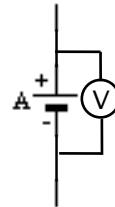
- Propagation of Errors
- Ohm's Law or Not



Battery Test 1

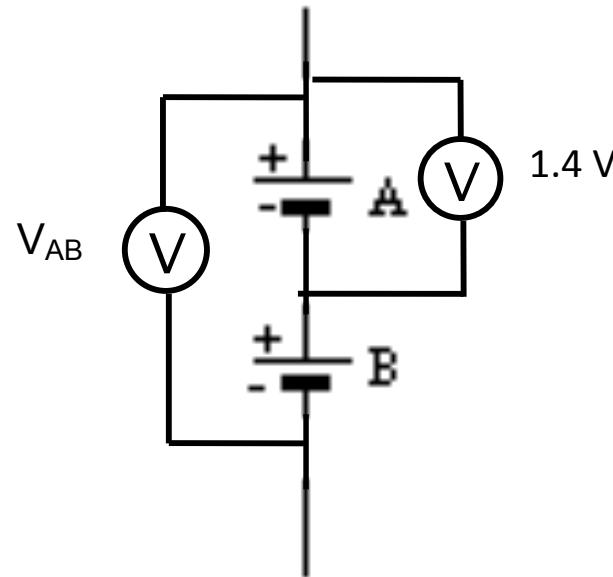
Assume that a single cell gives a reading of 1.4 V.

Cells A and B are the same.



What would be the expected value V_{AB} ?

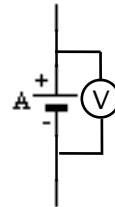
- A) 0.7 V
- B) 1.4 V
- C) 2.8 V
- D) Not sure



Battery Test 2

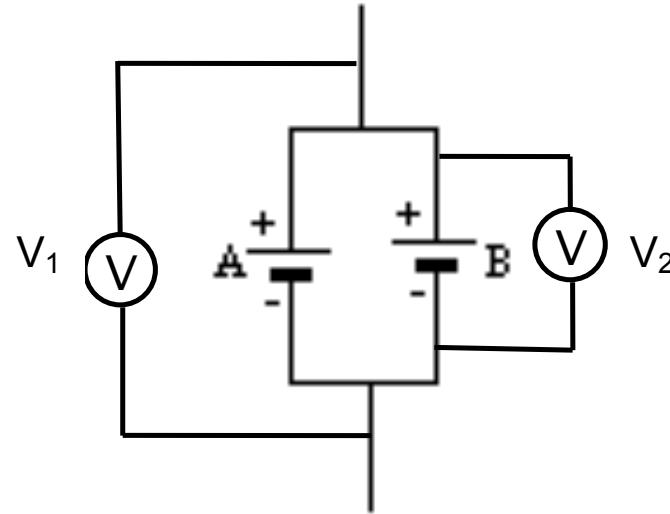
Assume that a single cell gives a reading of 1.4 V.

Cells A and B are the same.



What would be the expected values V_1 , V_2 ?

- A) 0.7 V, 1.4 V
- B) 0.7 V, 0.7 V
- C) 2.8 V, 2.8 V
- D) 2.8 V, 1.4 V
- E) 1.4 V, 1.4 V



Multimeter Mnemonic

3 common measurements with a multimeter are

- Voltage (Potential Difference)
- Current
- Resistance

