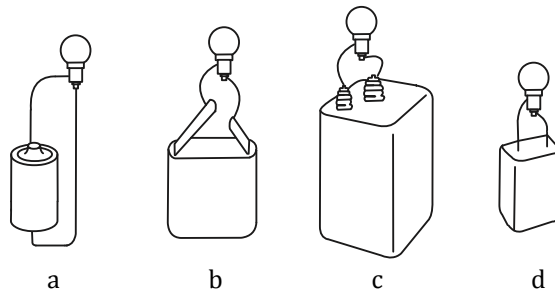


Four batteries

Four different batteries are used to light a bulb. All the bulbs are



(a) Which battery lights the bulb brightest?

Tick ONE box(3)

- Battery a
- Battery b
- Battery c
- Battery d
- All the bulbs will be the same brightness.

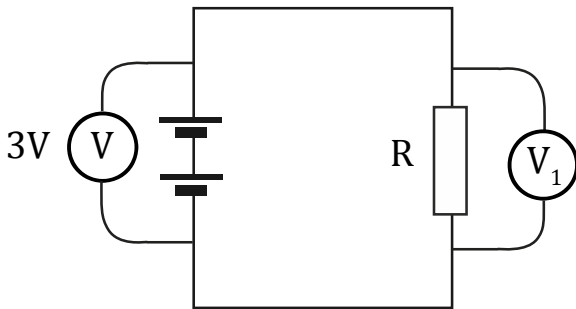
(b) How would you explain this?

Tick ONE box(3)

- It is the biggest battery, so it contains most electricity.
- It has the largest voltage, so it pushes the biggest current round.
- It is a torch battery, which is designed for lighting bulbs.
- It is a bicycle lamp battery, which is designed to give a bright light.
- The bulbs are identical, so they light equally brightly.

Battery voltage

In this circuit, the voltage across the battery is 3 V.



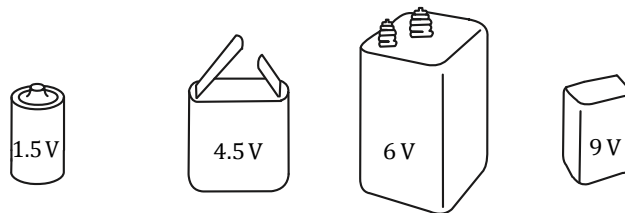
(a) What is the reading on voltmeter V_1 ? _____ volt

(b) Explain your answer:

This must be the reading on the voltmeter because:

Batteries

In a shop, you can buy a 1.5 V battery, or a 4.5 V battery, or a 6 V battery or a 9 V battery.



But you cannot buy a 1.5 A battery, or a 4.5 A battery, or a 6 A battery, or a 9 A battery.

Explain why you cannot buy these: