

All questions are for separate science students only**Q1.**

This question is about chemical cells.

- (a) A student connects four 1.5 V cells in series to make a battery.

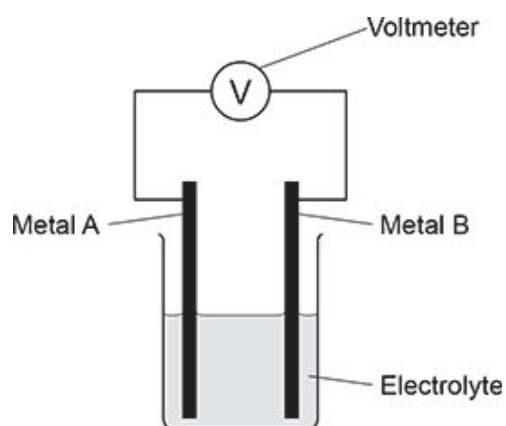
What is the total voltage produced by the battery? **(chemistry only)**

Voltage = _____ V

(1)

A chemical cell can be made using two different metals in contact with an electrolyte.

The figure below shows a chemical cell.



- (b) Which is a suitable electrolyte for a chemical cell? **(chemistry only)**

Tick (✓) **one** box.

Pure water

☐

Solid lead bromide

☐

Sodium chloride solution

☐

(1)

'The voltage produced by a cell depends on the difference in the reactivity of metal **A** and metal **B**.'

Your plan should produce valid results.

[illegible]

(Total 8 marks)