5 Fig. 5.1 shows a circuit containing six resistors connected to a 12 V battery with negligible internal resistance.

Q is a point in the circuit.

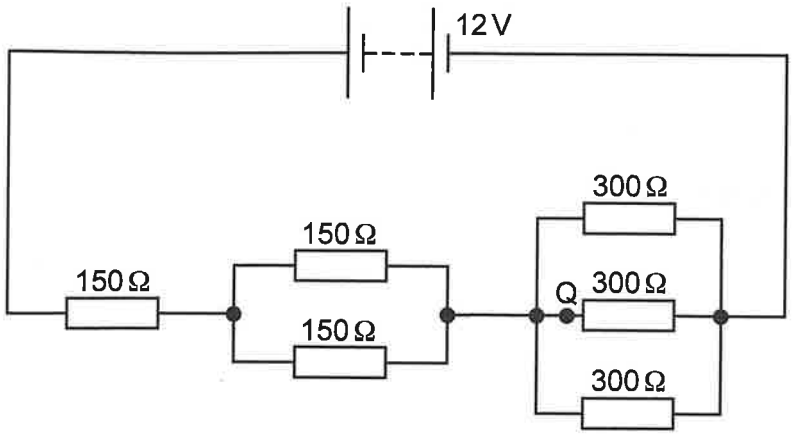

Fig. 5.1

(a) Calculate the total resistance of the circuit.

resistance = ... Ω [3]

(b) Calculate the current in the cell.

current in cell = ... A [1]

(c) Calculate the current at point Q.

current at Q = ... A [1]

[Total: 5]