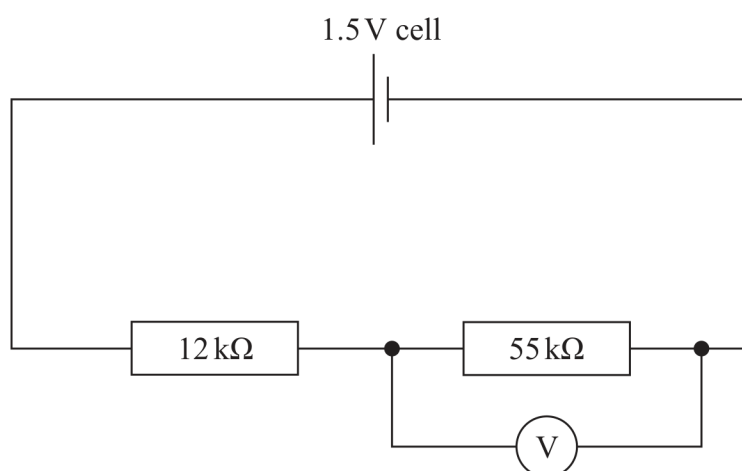


12 A student is given the circuit diagram shown.



(a) Calculate a value for the voltmeter reading.

(2)

Voltmeter reading =

(b) The student sets up the circuit and observes that the reading on the voltmeter is lower than the value calculated in (a).

Explain two reasons for the lower voltmeter reading.

(4)

(Total for Question 12 = 6 marks)