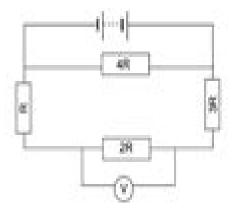
QUESTION 12 (Start on a new page.)

Consider the circuit diagram below. The internal resistance of the battery and any resistance in the wires can be ignored.



- 12.1 Calculate the value of resistor R if the total resistance of the circuit is 4.8 O.
- 12.2 Calculate the reading on the voltmeter if the current through the 4ft resistor is 1.8 A.
- 12.3 Calculate the energy converted in resistor 4R in 2 minutes. ()

The 4R resistor is replaced with an ammeter.

- 12.4 How will the reading on the voltmeter be influenced? Write only INCREASE. DECREASE or STAY THE SAME.
- 12.5 Explain the answer to QUESTION 12.4.

Electric Circuits Grade 11

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