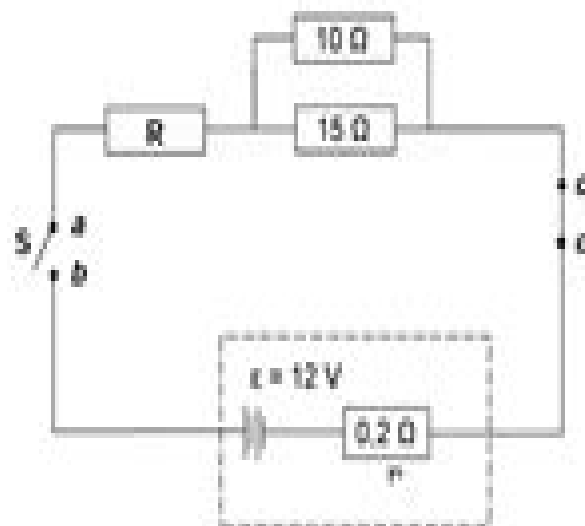


QUESTION 8 (Start on a new page.)

Adapted from DBE Physical Science P1 Nov 2016, Question 8

- 8.1 In the circuit below the battery has an emf (\mathcal{E}) of 12 V and an internal resistance of $0,2\ \Omega$. The resistances of the connecting wires are negligible.



- 8.1.1 Define the term *emf of a battery*. (2)
- 8.1.2 Switch S is open. A high-resistance voltmeter is connected across points a and b .
What will the reading on the voltmeter be? (1)
- 8.1.3 Switch S is now closed. The same voltmeter is now connected across points c and d .
What will the reading on the voltmeter be? (1)

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S Nieto



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