

Question 2

You are going to carry out an experiment to determine the internal resistance of a power supply.

- (a) Draw a diagram of the circuit that has been set up for you. [2]

- (b) Without closing the switch record the reading on the voltmeter. This is the e.m.f., E , of the power supply. [1]

$E = \dots\dots\dots$ V

- (c) Close the switch and record the voltage, V across the power supply with the $3.3\ \Omega$ resistor in place. Repeat this for **each** of the resistors provided, and also for every possible **series** combination. Record your results in a suitable table. [5]

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