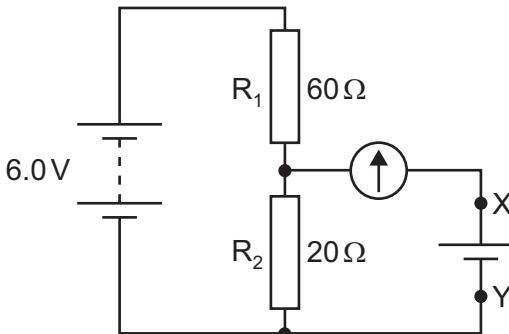


- 37 In the circuit shown, a battery of negligible internal resistance is connected in series with a pair of fixed resistors  $R_1$  and  $R_2$ .



The circuit is to be used to test whether the electromotive force (e.m.f.) of a particular cell is 1.5 V. The cell is connected between terminals X and Y in parallel with  $R_2$  and in series with a galvanometer.

Which statement about the test is correct?

- A Any non-zero reading on the galvanometer means the cell has an e.m.f. of 1.5 V.
- B The battery does not need to have an e.m.f. of 6.0 V.
- C The cell may be connected either way round between X and Y.
- D The galvanometer does not need a scale calibrated in amperes.