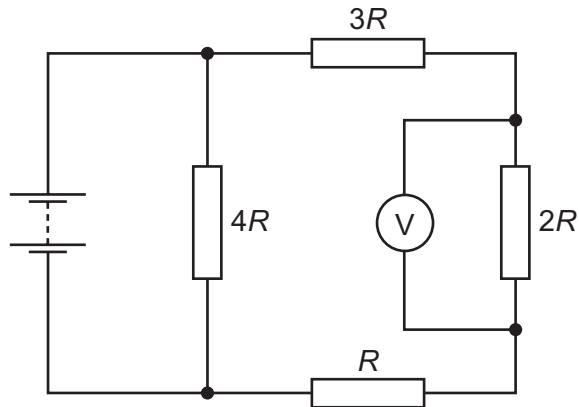


38 Four resistors of resistance R , $2R$, $3R$ and $4R$ are connected to form a network.

A battery of negligible internal resistance and a voltmeter are connected to the resistor network as shown.



The voltmeter reading is 2 V .

What is the electromotive force (e.m.f.) of the battery?

A 2 V

B 4 V

C 6 V

D 10 V

39 When α particles are fired at a thin metal foil, most of the particles pass straight through but a few