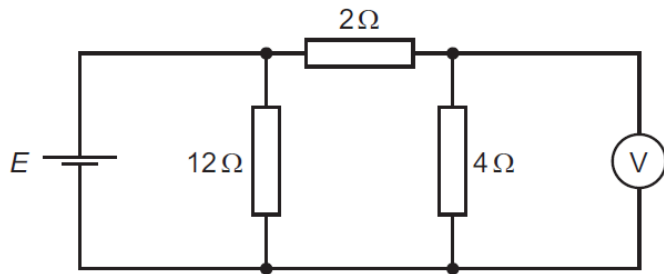


- 21** A cell of electromotive force (e.m.f.) E and negligible internal resistance is connected into a circuit, as shown.



The voltmeter has a very high resistance and reads a potential difference V_{out} .

What is the ratio $\frac{V_{\text{out}}}{E}$?

A $\frac{1}{6}$

B $\frac{1}{3}$

C $\frac{1}{2}$

D $\frac{2}{3}$