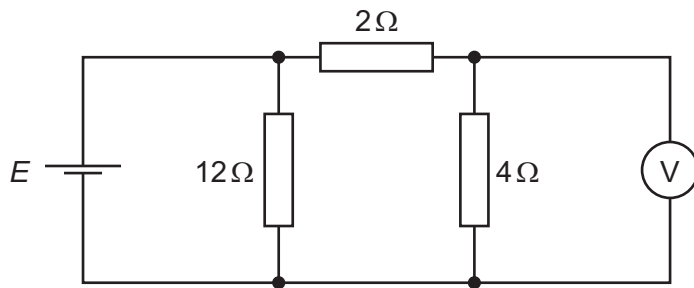


- 37** A cell of electromotive force (e.m.f.)  $E$  and negligible internal resistance is connected into a circuit, as shown.



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

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

**A**  $\frac{1}{6}$

**B**  $\frac{1}{3}$

**C**  $\frac{1}{2}$

**D**  $\frac{2}{3}$