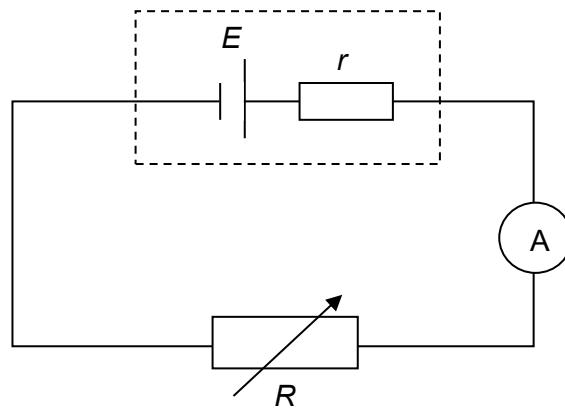


- 25** A battery of e.m.f.  $E$  and internal resistance  $r$  delivers a current  $I$  through a variable resistance  $R$ .



$R$  is set at two different values and the corresponding currents  $I$  are measured using an ammeter of negligible resistance.

$R / \Omega$	$I / A$
3.0	1.00
12.0	0.40

What is the value of the internal resistance  $r$ ?

**A**  $1.3 \Omega$

**B**  $3.0 \Omega$

**C**  $6.0 \Omega$

**D**  $13.0 \Omega$

