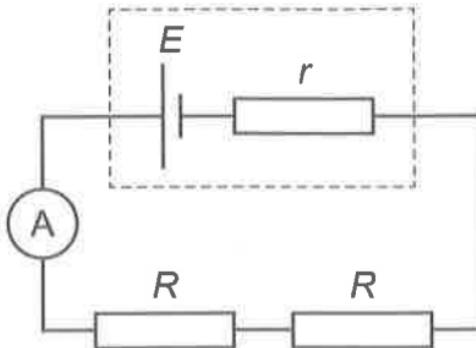
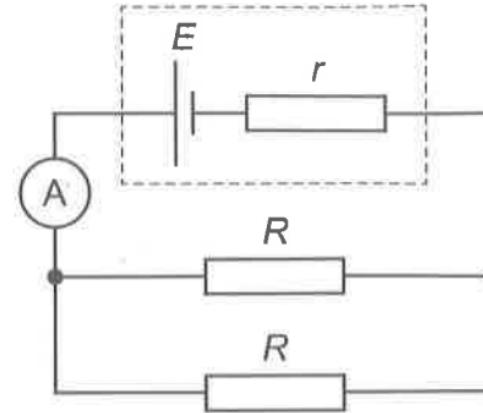


- 23 Two resistors, each of resistance  $R$ , are connected in series and then in parallel with a d.c. supply of electromotive force (e.m.f.)  $E$  and internal resistance  $r$ .



circuit 1



circuit 2

The ammeter reading in circuit 2 is three times the ammeter reading in circuit 1.

What is  $r$ ?

A  $\frac{R}{4}$

B  $\frac{R}{2}$

C  $R$

D  $2R$

- 24 A potential divider has a constant supply of 6.0 V, as shown in the diagrams.