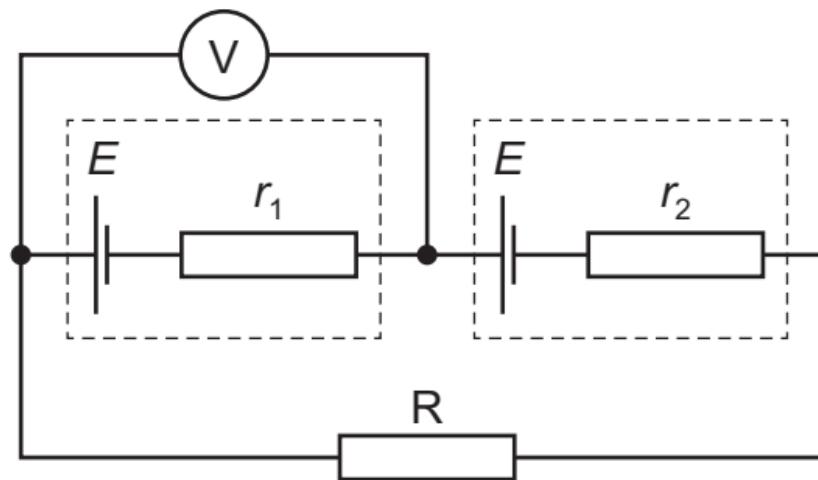


- 36 Two cells, each with electromotive force (e.m.f.)  $E$ , but different internal resistances  $r_1$  and  $r_2$ , are connected in series to a resistor  $R$ . The reading on the voltmeter is 0V.



What is the resistance of  $R$ ?

A 0

B  $r_1 - r_2$

C  $r_1 + r_2$

D  $\frac{r_1 r_2}{r_1 + r_2}$