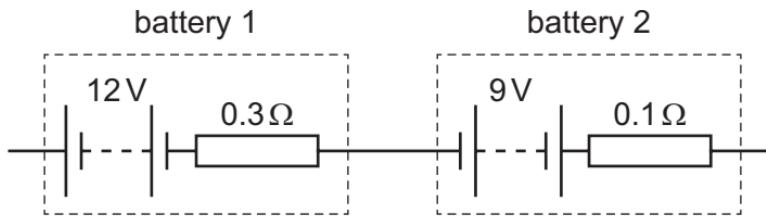


**35** Two batteries are connected together, as shown.



Battery 1 has electromotive force (e.m.f.) 12V and internal resistance  $0.3\Omega$ .

Battery 2 has e.m.f. 9V and internal resistance  $0.1\Omega$ .

What are the e.m.f. and the internal resistance of a single battery that has the same effect as the combination?

	e.m.f./V	internal resistance/ $\Omega$
A	3	0.2
B	3	0.4
C	21	0.2
D	21	0.4