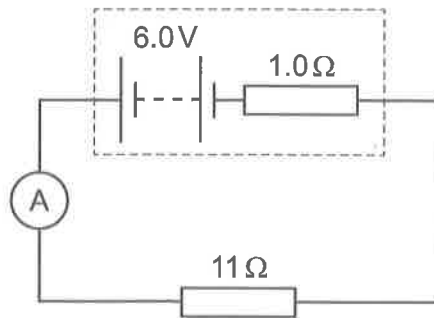20 The diagram shows a battery of electromotive force (e.m.f.) 6.0 V and internal resistance 1.0 Ω connected in series with an ammeter and a resistor of resistance 11 Ω.

A second identical battery is added in series with the first to give a total e.m.f. of 12.0 V.

What will be the change of the reading on the ammeter?

A   no change

B   it increases by a factor less than 2

C   it doubles

D   it increases by a factor more than 2