35 The circuit shown contains a cell with negligible internal resistance.
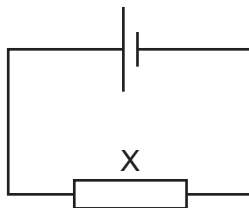

The energy transferred per unit charge in driving charge around the complete circuit is E. The potential difference (p.d.) across X is V.

The cell is then replaced with a different cell of the same electromotive force (e.m.f.) that has significant internal resistance.

What is the effect on E and V of replacing the cell?

	effect on E	effect on V
A	decreases	decreases
B	decreases	increases
C	no change	decreases
D	no change	increases