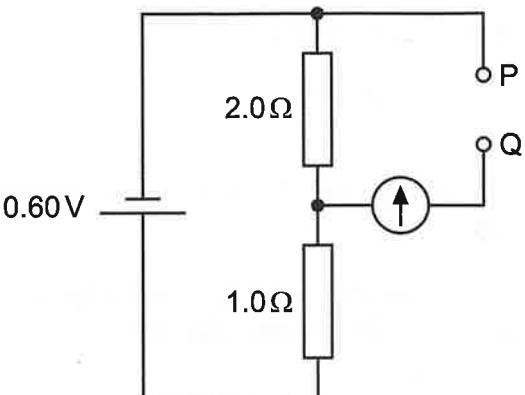


- 21 A student uses a potentiometer circuit to measure the electromotive force (e.m.f.) of a cell connected between P and Q.

The reading on the galvanometer is zero.



What is the e.m.f. of the cell connected between P and Q and what is the polarity of the terminal connected to P?

	e.m.f./V	polarity connected to P
A	0.40	negative
B	0.20	negative
C	0.40	positive
D	0.20	positive

- 22 A battery is connected into an electric circuit with two resistors, as shown.