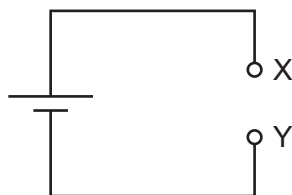


- 34** A circuit needs to be completed by connecting two resistors between points X and Y, as shown.

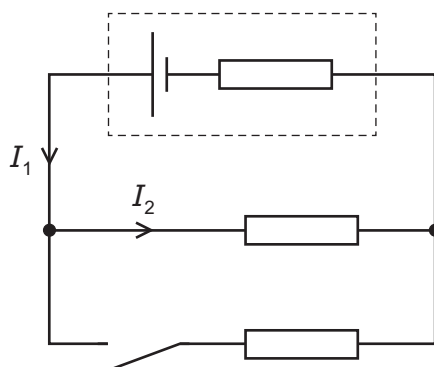
The resistors can be connected in series or in parallel with each other.



Which combination of resistors produces the least resistance between X and Y?

	resistances of resistors / Ω	type of combination
A	20 and 40	parallel
B	40 and 100	parallel
C	20 and 40	series
D	40 and 100	series

- 35** The diagram shows a circuit that includes a cell with internal resistance.



The switch is initially open.

Which row describes the effects on currents I_1 and I_2 of closing the switch?

	I_1	I_2
A	decreases	decreases
B	decreases	stays the same
C	increases	decreases
D	increases	stays the same