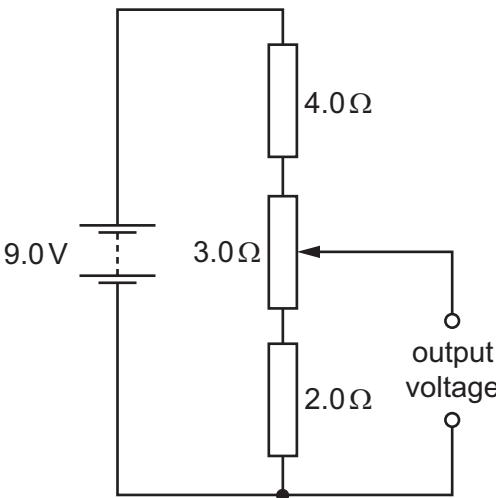


- 36 A potential divider circuit consists of fixed resistors of resistance 2.0Ω and 4.0Ω connected in series with a 3.0Ω resistor fitted with a sliding contact. These are connected across a battery of e.m.f. 9.0 V and zero internal resistance, as shown.



What are the maximum and the minimum output voltages of this potential divider circuit?

	maximum voltage/V	minimum voltage/V
A	4.0	2.0
B	5.0	2.0
C	9.0	0
D	9.0	2.0

- 37 A cell of e.m.f. 3.0 V and negligible internal resistance is connected to a network of resistors as shown.