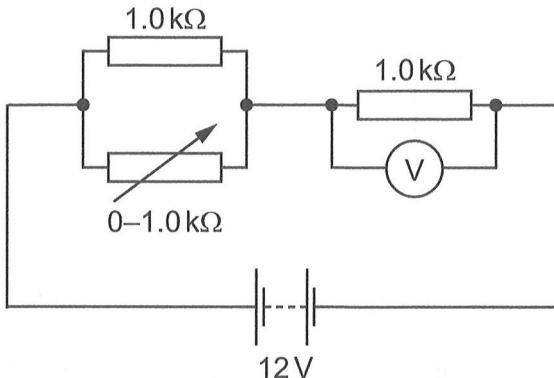


- 24 The diagram shows a resistor network connected to a 12V battery of negligible internal resistance. The variable resistor has the range indicated, and the voltmeter has infinite resistance.



What are the maximum and the minimum possible values of the voltmeter reading as the resistance of the variable resistor is altered?

	maximum / V	minimum / V
A	4	0
B	8	4
C	8	6
D	12	8

- 25 A conducting loop of area $2.0 \times 10^{-2} \text{ m}^2$ is placed at right angles to a magnetic field, initially of