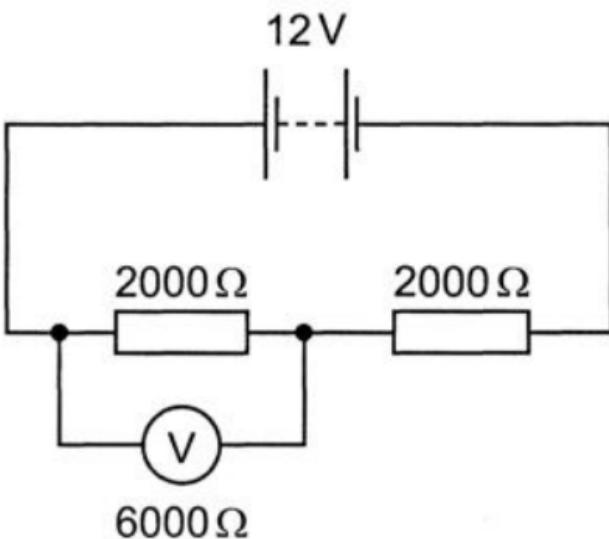


- 29 A 12 V battery of negligible internal resistance is connected across two  $2000\Omega$  resistors in series. A voltmeter of resistance  $6000\Omega$  is connected in parallel across one of the resistors.



What will be the reading on the voltmeter?

A  $5.14\text{V}$

B  $6.00\text{V}$

C  $6.86\text{V}$

D  $7.20\text{V}$

- 30 A charged particle is moving in a region where there is a uniform magnetic field acting out of the page.