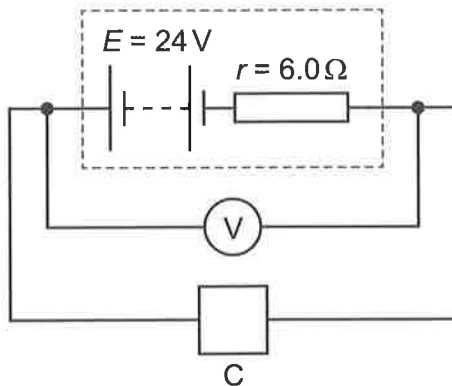


- 21 The diagram shows a battery of electromotive force  $24\text{ V}$  and internal resistance  $6.0\ \Omega$  connected to an external component C. A voltmeter records the potential difference between the terminals of the battery.



Component C consists of a combination of  $4.0\ \Omega$  resistors.

What is the **least** number of these resistors that causes the voltmeter to have a reading of  $12\text{ V}$ ?

A 2

B 3

C 4

D 5

