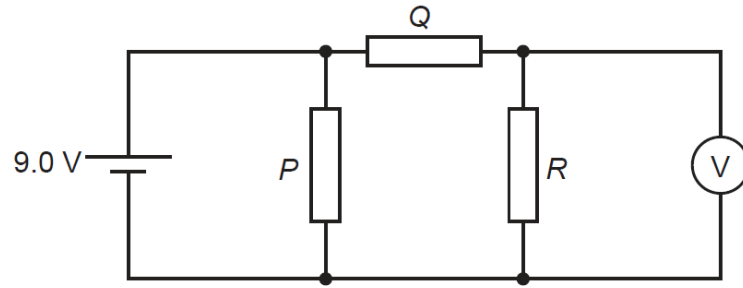


- 23 A 9.0 V battery with negligible internal resistance is connected into a circuit, as shown.



The resistance of the voltmeter is equal to the resistance of R .

The reading on the voltmeter is 3.0 V.

What is the value of the ratio $\frac{\text{resistance of the voltmeter}}{\text{resistance of } Q}$?

A $\frac{1}{2}$

B 1

C 2

D 4

