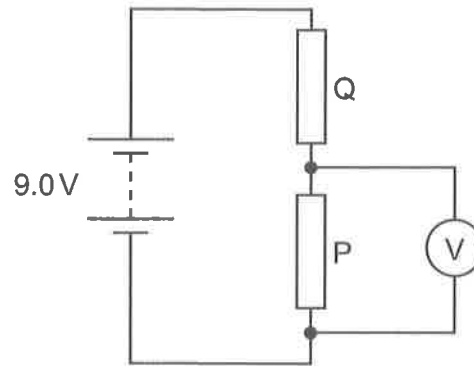**21** Two resistors, P and Q, are connected in series to a 9.0V battery with negligible internal resistance.

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

The reading on the voltmeter is 6.0V.

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

A $\dfrac{1}{2}$ B $\dfrac{1}{4}$ C 2   D 4