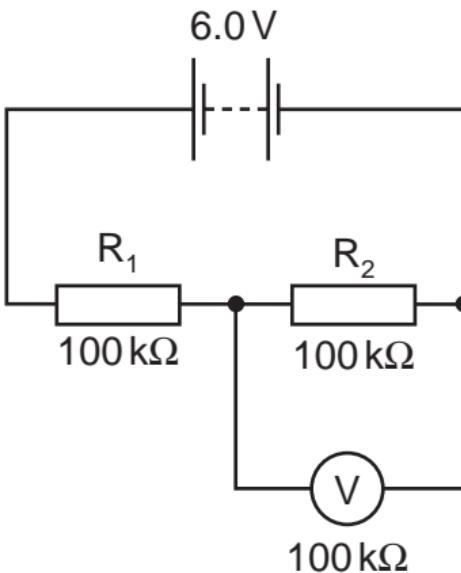


- 37 In the circuit shown, the 6.0 V battery has negligible internal resistance. Resistors R_1 and R_2 and the voltmeter have resistance $100\text{ k}\Omega$.



What is the current in the resistor R_2 ?

A $20\text{ }\mu\text{A}$

B $30\text{ }\mu\text{A}$

C $40\text{ }\mu\text{A}$

D $60\text{ }\mu\text{A}$

- 38 The unknown e.m.f., E , of a cell is to be determined using a potentiometer circuit. The balance