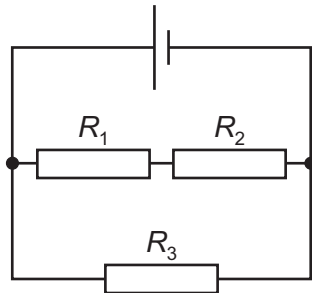


**36** The diagram shows a circuit with a cell and three resistors with resistances  $R_1$ ,  $R_2$  and  $R_3$ .

The cell has negligible internal resistance.



The total resistance of the circuit is  $R_T$ .

Which equation for  $R_T$  is correct?

**A**  $R_T = R_1 + R_2 + R_3$

**B**  $R_T = \frac{1}{R_1 + R_2} + \frac{1}{R_3}$

**C**  $\frac{1}{R_T} = \frac{1}{R_1 + R_2 + R_3}$

**D**  $\frac{1}{R_T} = \frac{1}{R_1 + R_2} + \frac{1}{R_3}$