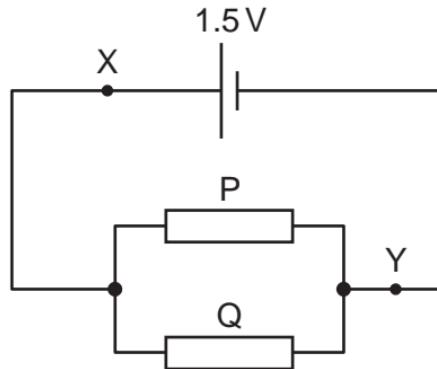


- 22 The diagram shows an electrical circuit consisting of a 1.5 V cell of negligible internal resistance and two resistors P and Q.



Which statement about this circuit is correct?

- A The cell converts 1.5 J of electrical energy to chemical energy for each coulomb of charge passing through it.
- B The energy dissipated per unit charge passing through P and Q is the same.
- C The potential difference across P and the potential difference across Q add up to 1.5 V.
- D The rate of flow of charge at point X is greater than the rate of flow of charge at Y.