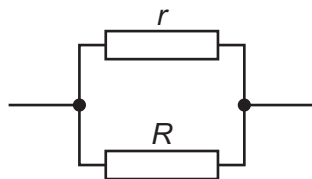


- 35** Two resistors of resistances r and R are connected in parallel.

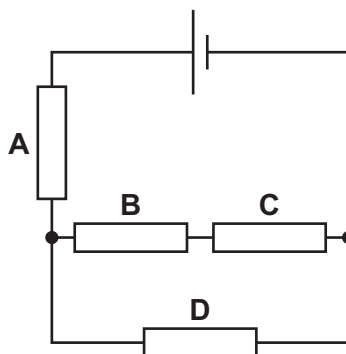
The value of r is less than that of R .



Which statement about the combined resistance of the two resistors is correct?

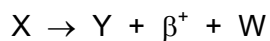
- A** It is between r and R .
 - B** It is equal to $(r + R)$.
 - C** It is greater than $(r + R)$.
 - D** It is less than r .
- 36** The diagram shows four identical resistors connected in a circuit.

Which resistor dissipates the most power?



- 37** Nuclide X with proton number Z undergoes β^+ decay to form nuclide Y.

The decay may be represented by the equation shown.



What is the proton number of Y and which particle is represented by the symbol W?

	proton number of Y	particle represented by W
A	$Z - 1$	antineutrino
B	$Z - 1$	neutrino
C	$Z + 1$	antineutrino
D	$Z + 1$	neutrino