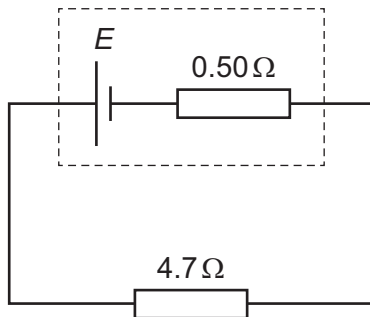


- 36 A cell of electromotive force (e.m.f.)  $E$  and internal resistance  $0.50\ \Omega$  is connected to a resistor of resistance  $4.7\ \Omega$ .



The maximum power that can be dissipated by the resistor without overheating is  $0.50\ \text{W}$ .

What is the maximum value of  $E$  for the resistor **not** to overheat?

- A**  $1.4\ \text{V}$                       **B**  $1.5\ \text{V}$                       **C**  $1.7\ \text{V}$                       **D**  $2.9\ \text{V}$