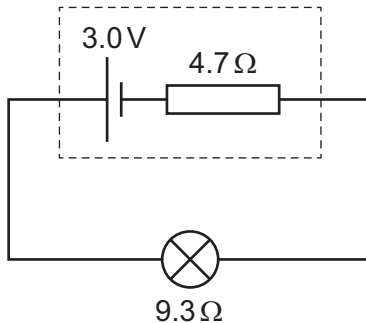


- 35** The diagram shows a cell of electromotive force (e.m.f.)  $3.0\text{ V}$  and internal resistance  $4.7\ \Omega$  connected across a lamp. The lamp has a resistance of  $9.3\ \Omega$ .



What is the power dissipated by the internal resistance of the cell?

- A**  $0.22\text{ W}$       **B**  $0.43\text{ W}$       **C**  $0.64\text{ W}$       **D**  $1.0\text{ W}$