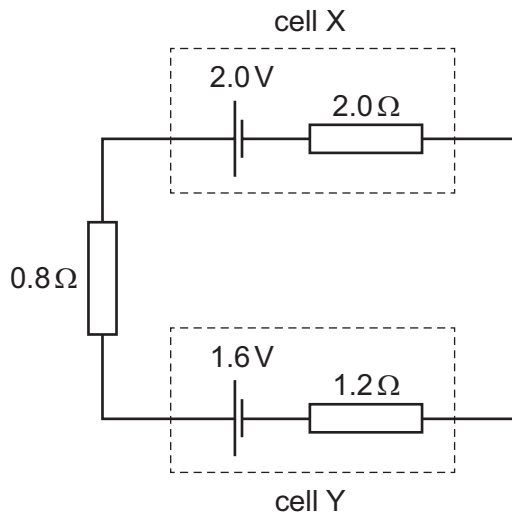


- 33** Cell X has an e.m.f. of  $2.0\text{ V}$  and an internal resistance of  $2.0\ \Omega$ . Cell Y has an e.m.f. of  $1.6\text{ V}$  and an internal resistance of  $1.2\ \Omega$ . These two cells are connected to a resistor of resistance  $0.8\ \Omega$ , as shown.



What is the current in cell X?

- A**  $0.10\text{ A}$       **B**  $0.50\text{ A}$       **C**  $0.90\text{ A}$       **D**  $1.0\text{ A}$

**Space for working**