

- 22** A battery is connected in series with a resistor  $R$ . The battery drives 1500 C of charge completely round the circuit. During this process, 2500 J of energy is dissipated in the resistor  $R$  and 500 J is dissipated in the battery.

What is the e.m.f. of the battery?

**A** 0.50 V

**B** 0.33 V

**C** 1.7 V

**D** 2.0 V