

**31** A 12 V battery is charged for 20 minutes by connecting it to a source of electromotive force (e.m.f.). The battery is supplied with  $7.2 \times 10^4$  J of energy in this time.

How much charge flows into the battery?

**A** 5.0 C

**B** 60 C

**C** 100 C

**D** 6000 C

**32** What is meant by the electromotive force (e.m.f.) of a cell?