

**33** A total charge of 100 C flows through a 12 W light bulb in a time of 50 s.

What is the potential difference across the bulb during this time?

**A** 0.12 V

**B** 2.0 V

**C** 6.0 V

**D** 24 V

**34** Two copper wires X and Y have the same volume. Wire X is four times as long as wire Y.