

**32** A wire is made from a metal of constant resistivity. There is a constant current in the wire.

Which statement about the potential difference across the wire is correct?

- A** It is directly proportional to the length of the wire.
- B** It is inversely proportional to the length of the wire.
- C** It is directly proportional to the diameter of the wire.
- D** It is inversely proportional to the diameter of the wire.