

25 A wire has a uniform circular cross-sectional area.

Which statement is correct?

- A** The resistance of the wire is directly proportional to its cross-sectional area and inversely proportional to its diameter.
- B** The resistance of the wire is directly proportional to its cross-sectional area and inversely proportional to its length.
- C** The resistance of the wire is directly proportional to its length and inversely proportional to its cross-sectional area.
- D** The resistance of the wire is directly proportional to its length and inversely proportional to its diameter.