

**34** A metal wire has resistance  $R$ .

The wire is stretched so that its diameter decreases to 94.0% of the original diameter.

The volume of the wire is unchanged.

What is the resistance of the stretched wire?

**A**  $1.06R$

**B**  $1.13R$

**C**  $1.20R$

**D**  $1.28R$