

- 33** A cylindrical piece of a soft, electrically-conducting material has resistance R . It is rolled out so that its length is doubled but its volume stays constant.

What is its new resistance?

A $\frac{R}{2}$

B R

C $2R$

D $4R$

- 34** A source of electromotive force (e.m.f.) \mathcal{E} has a constant internal resistance r and is connected to