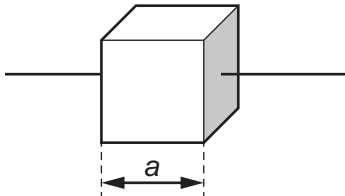


- 33** A metal cube with sides of length a has electrical resistance R between opposite faces.



What is the resistance between the opposite faces of a cube of the same metal with sides of length $3a$?

- A** $9R$ **B** $3R$ **C** $\frac{R}{3}$ **D** $\frac{R}{9}$