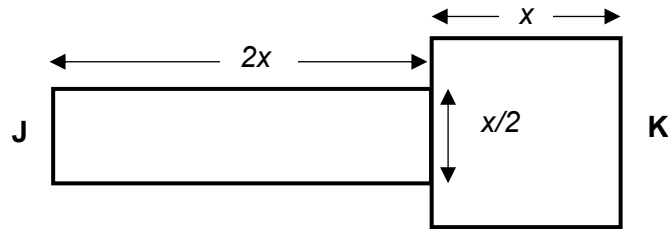A thin rectangular sheet of metal of uniform thickness and of length $2x$ and width $\frac{x}{2}$ is connected to another square sheet of the same metal of the same thickness, which has a resistance of 8.0 Ω measured between opposite edges.



What is the resistance between edges **J** and **K**?

**A**   6.4 Ω          **B**   16 Ω          **C**   32 Ω          **D**   40 Ω