18   Two wires, X and Y, are made of different materials, but have the same resistance.

X is twice as long as Y but has half the diameter of Y.

What is the ratio $\dfrac{\text{resistivity of material from which wire X is made}}{\text{resistivity of material from which wire Y is made}}$?

A $\dfrac{1}{8}$ **B** $\dfrac{1}{4}$ **C**   4   **D**   8