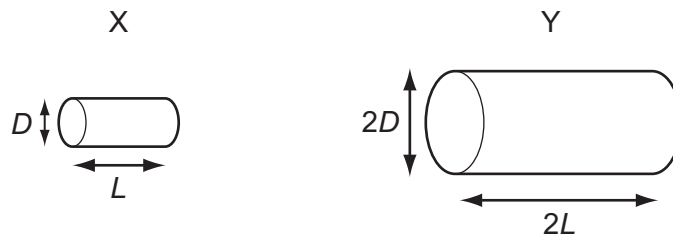


**34** Two electrically-conducting cylinders X and Y are made from the same material.

Their dimensions are as shown.



The resistance of each cylinder is measured between its ends.

What is the ratio  $\frac{\text{resistance of X}}{\text{resistance of Y}}$ ?

**A**  $\frac{2}{1}$

**B**  $\frac{1}{1}$

**C**  $\frac{1}{2}$

**D**  $\frac{1}{4}$

**Space for working**