6 A uniform rod has a wooden section and a solid rubber handle as shown.
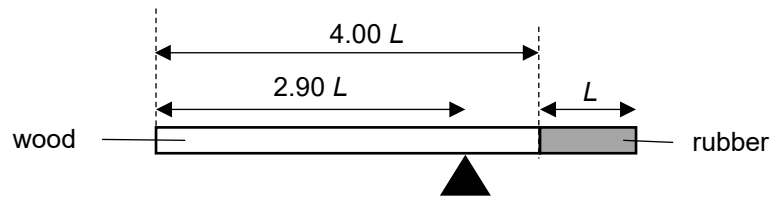

The length of the handle is L, and the length of the wooden section is 4.00 L. The rod balances at 2.90 L from the wooden end.

What is the ratio $\dfrac{\text{density of rubber}}{\text{density of wood}}$?

A 1.71   **B**   2.25   **C**   2.50
   D   3.27