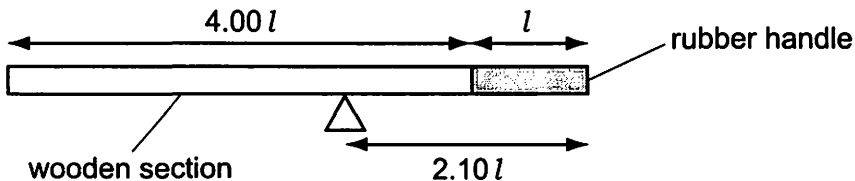
12 A rod of uniform cross-sectional area has a wooden section and a solid rubber handle, as shown.



The length of the handle is l and the length of the wooden section is 4.00 l. The rod balances when the pivot is at a distance 2.10 l from the rubber end of the rod.

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

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