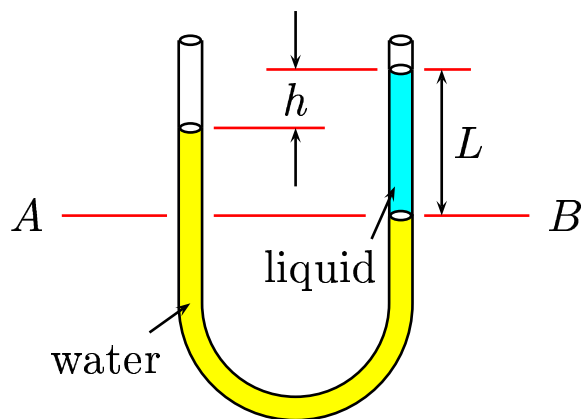


A U tube is filled with water and a liquid. Here the water is denser than the liquid, with the ratio of their densities $\frac{\rho_{liquid}}{\rho_{water}} = \frac{2}{3}$.



Find the ratio $\frac{h}{L}$.

- A) $\frac{h}{L} = \frac{1}{3}$.
- B) $\frac{h}{L} = \frac{2}{3}$.
- C) $\frac{h}{L} = 1$.

By inspection the ratio of the height of liquid column above the horizon-

tal line \overline{AB} to the height of the water column above the same line should be 3 to 2.

This implies that $\frac{h}{L} = \frac{2}{3}$.

Answer A

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