Density Practice

1. A block has a mass of 325g and a volume of 500 cm^3.

    A.What is the block's density?

    B. Will it sink or float in freshwater?

Solution:

  A.Density = $\dfrac{\text{Mass}}{\text{Volume}}$ = $\dfrac{325g}{500cm^3}$ = 0.65g/cm^3

  B. Density of water = 1.00g/cm^3

        1.00g/cm^3 > 0.65g/cm^3

    Water is denser than the block & the block will **FLOAT**