Density Formula

Density of a substance can be determined by calculating its mass-to-volume ratio.

	Shorthand	Rearranged	
Density = <u>mass</u>	D = <u>m</u>	V = <u>m</u>	m = Vx D
volume	V	D	

-For liquids density is measured in g/mL or g/L

-For solids density is measured in g/cm³

Density of water is 1.00 g/mL

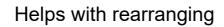
A substance that had a density of 2.85 g/mL would _____ in water. It is _____ dense than water.

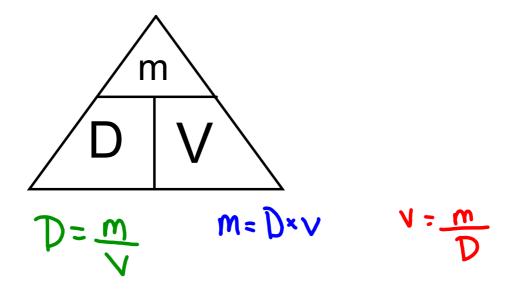
A substance that had a density of 0.82 g/mL would _____ in water. It is _____ dense than water.



V	Vhich substance	would float or sink in w	ater?
\mathbf{i}	<u>Substance</u>	Density of substance	Sink or Float
2	А	0.35 g/mL \ e\$\$	float
	В	1.02 g/mL Mir<	Sink
	С	0.99 g/mL \ess	float
		•	

Table 5.1 on page 141 shows the approximate desities of common substances





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