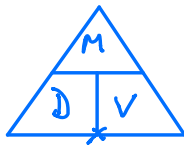


Density



$$\text{Density} = \frac{\text{Mass}}{\text{Volume}} \quad \text{Volume} = \frac{\text{Mass}}{\text{Density}} \quad \text{Mass} = \text{Density} \times \text{Volume}$$

	Mass	Density	Volume
A	80g	4.2 g/cm <sup>3</sup>	19.05 cm <sup>3</sup>
B	1450g	5.8 g/cm <sup>3</sup>	250 cm <sup>3</sup>
C	$\frac{75g}{1605g}$		$\frac{160 \text{ cm}^3}{429.05 \text{ cm}^3}$

D is formed from A, B, C

Find density of D

$$\text{Density} = \frac{\text{Total Mass}}{\text{Total Volume}}$$

$$= \frac{1605g}{429.05 \text{ cm}^3} = 3.74 \text{ g/cm}^3$$

A and B are mixed and the compound AB has a density of 6 g/cm<sup>3</sup> and mass of 100g.

A has a mass of 30g and density of 4 g/cm<sup>3</sup>

Find the density of B

	Mass	Vol	Density
A	30g	7.5 cm <sup>3</sup>	4 g/cm <sup>3</sup>
B	70g	9.17 cm <sup>3</sup>	7.63 g/cm <sup>3</sup>
AB	100g	16.67 cm <sup>3</sup>	6 g/cm <sup>3</sup>

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