

Density, Mass and Volume (A)

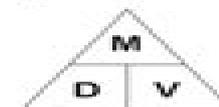


Section A

Calculating Density

Use the mass and volume of each element to calculate its density in g/cm^3 .

Element	Mass	Volume	Density (g/cm^3)
Silicon	15 g	6.44 cm^3	
Zinc	2.5 kg	350.63 cm^3	
Lithium	340 g	636.7 cm^3	
Mercury	3251 g	240 cm^3	
Titanium	0.8 kg	176.21 cm^3	
Oxygen	8.574 g	6000 cm^3	



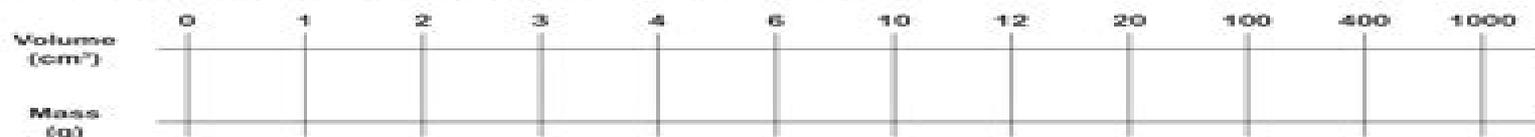
Given that $1000 \text{ cm}^3 = 1 \text{ L}$,
Convert this density to g/L .

Section B

Calculating Mass and Volume

1) The density of iron is 7.9 g/cm^3 to 1 d.p.

a) Use the density to complete stacked number line:



b) What kind of relationship exists between mass and volume?

2) Complete the table, giving your answer in the specified units.

Element	Mass	Volume	Density (g/cm^3)
Silver	kg	400 cm^3	10.5 g/cm^3
Tin	5000 g	cm^3	7.31 g/cm^3
Nitrogen	g	750 cm^3	1.25 g/L
Carbon	g	1.2 L	2.26 g/cm^3
Copper	723 g	cm^3	8.96 g/cm^3
Calcium	1.4 kg	cm^3	1.55 g/cm^3
Aluminum	kg	0.02 m^3	2.702 g/cm^3
Gold	1 tonne	m^3	19.31 g/cm^3

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