

gridlocks – can you unlock the grid?

Units of Volume

Before you answer the puzzles below fill in the table of units using:

1,000,000 1000 ml dm^3 cubic decimetre

Units	Symbol	Equivalent volume in cm^3	Equivalent volume in dm^3
cubic centimetre	cm^3	1	0.001
		1000	1
cubic metre	m^3		1000
millilitre		1	0.001
litre	l		1

Gridlock 1

Each row, column and 2 x 2 box contains the volumes 25, 100, 250 and 500 cm^3 . Use your problem solving skills and the answers in the table above to fill in the blank boxes.

volume in cm^3		volume in dm^3	
25			0.5
	500		
		100	250
volume in dm^3		volume in ml	

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Gridlock 2

Each row, column and 2 x 2 box contains the volumes 0.5, 1, 24 and 1000 dm³.

volume in cm ³		volume in dm ³	
24,000			
		0.5	
		0.001	
	1000		
volume in l		volume in m ³	

Gridlock 3

Each row, column and 2 x 2 box contains the volumes 20, 25, 10 and 100 cm³.

volume in cm ³		volume in dm ³	
	20		0.1
			0.02
0.025			1×10^{-5}
volume in l		volume in m ³	