

Volume of gases

Before you answer the puzzles below fill in the table of different quantities of helium (He) gas:

0.1	4	0.5	0.4	48

moles	mass	volume
1		24
2	8	
	2	12
		2.4

Gridlock 1

Each row, column and 2 x 2 box contains each of the four quantities of He above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

mo	les	ma	ass
2			
		0.4	
		1	
	12		
volu	ıme	mo	les





gridlocks - can you unlock the grid?

Gridlock 2

Each row, column and 2 x 2 box contains four different volumes of **hydrogen** (H₂) gas.

mo	les	ma	ass
	1		0.2
			2
48			0.5
volu	ıme	mo	les

Gridlock 3

Each row, column and 2 x 2 box contains four different volumes of carbon dioxide (CO₂) gas.

mo	les	ma	ass
2			132
			0.1
4.8			
volu	ıme	mo	les



