

Volume of gases

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

0.4	4	^ F	0.4	40
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.

moles		mass	
2			
		0.4	
		1	
	12		
volu	ıme	mo	oles



gridlocks - can you unlock the grid?

Gridlock 2

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

moles		mass	
	1		0.2
			2
48			0.5
volume		mo	les

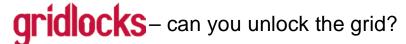
Gridlock 3

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

moles		mass	
2			132
			0.1
4.8			
volume		mo	oles







Volume of gases - answers

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

moles	mass	volume
1	4	24
2	8	48
0.5	2	12
0.1	0.4	2.4

Gridlock 1 - answers

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.

moles		mass	
2	0.1	2	4
0.5	1	0.4	8
2.4	48	1	0.5
24	12	2	0.1
volume		mo	les





gridlocks - can you unlock the grid?

Gridlock 2 - answers

moles		mass	
0.5	1	4	0.2
0.1	2	1	2
24	12	1	2
48	2.4	0.5	0.5
volume		mo	les

Gridlock 3 - answers

moles		mass	
2	0.2	4.4	132
0.1	3	88	8.8
72	48	0.2	0.1
4.8	2.4	3	2
volume		mo	les



