

gridlocks – can you unlock the grid?

Moles equations 1

Before you answer the puzzle below fill in the table showing the correct equation for moles given the different types of data using:

volume of gas	mass	volume & conc of solution
Data	Equation	
	$moles = \frac{mass}{M_r}$	
	$moles = \frac{vol(in\ dm^3)}{24}$	
	$moles = conc \times vol(in\ dm^3)$	

Gridlock 1

Each row, column and 2 x 2 box contains information about the three equations above. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

data		equation	
volume of gas	gridlocks		
		gridlocks	
gridlocks		mass	
	$moles = conc \times vol(in\ dm^3)$		gridlocks
equation			data

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Gridlock 2

data		equation	
	mass		gridlocks
gridlocks			$moles = \frac{mass}{M_r}$
		gridlocks	
$moles = \frac{vol(in\ dm^3)}{24}$	gridlocks		volume & conc of solution
equation		data	

Gridlock 3

data		equation	
volume of gas		gridlocks	$moles = \frac{mass}{M_r}$
gridlocks			
			gridlocks
$moles = conc \times vol(in\ dm^3)$	gridlocks		
equation		data	