

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.

da	ata	equa	ation
volume of gas			
		mass	
	$moles$ = $conc \times vol(in dm^3)$		
equ	ation	da	ata



gridlocks - can you unlock the grid?

Gridlock 2

Each row, column and 2 x 2 box contains information about the three equations above.

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

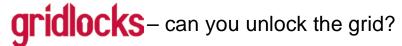
Gridlock 3

Each row, column and 2 x 2 box contains information about the three equations above.

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







Moles equations 1 - answers

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

Gridlocks 1 - answers

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



gridlocks - can you unlock the grid?

Gridlocks 2 - answers

data		equation	
volume & conc of solution	mass	$moles = \frac{vol(in dm^3)}{24}$	
	volume of gas	$moles$ = $conc \times vol(in dm^3)$	$moles = \frac{mass}{M_r}$
$moles = \frac{mass}{M_r}$	$moles$ = $conc \times vol(in dm^3)$		volume of gas
$moles = \frac{vol(in dm^3)}{24}$		mass	volume & conc of solution
equa	ation	da	ata

Gridlocks 3 - answers

data		equation	
volume of gas	volume & conc of solution		$moles = \frac{mass}{M_r}$
	mass	$moles = \frac{vol(in dm^3)}{24}$	moles = $conc \times vol(in dm^3)$
$moles = \frac{mass}{M_r}$	$moles = \frac{vol(in dm^3)}{24}$	volume & conc of solution	
$moles$ = $conc \times vol(in dm^3)$		mass	volume of gas
equa	ation	da	nta



