

# gridlocks – can you unlock the grid?

## Multiples of units (16–18)

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

$1 \times 10^6$       kilo    centi    nano    giga     $1 \times 10^{-3}$

prefix	multiple	symbol	prefix	multiple	symbol
deci	$1 \times 10^{-1}$	d	deca	10	da
	$1 \times 10^{-2}$	c	hecto	100	h
milli		m		$1 \times 10^3$	k
micro	$1 \times 10^{-6}$	$\mu$	mega		M
	$1 \times 10^{-9}$	n		$1 \times 10^9$	G
pico	$1 \times 10^{-12}$	p	tera	$1 \times 10^{12}$	T

### Gridlock 1

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

prefix		multiple	
	deci		$1 \times 10^{-6}$
			$1 \times 10^{-1}$
c			milli
symbol		prefix	

# gridlocks – can you unlock the grid?

## Gridlock 2

Each row, column and 2 x 2 box contains information about each of the prefixes: hecto, nano, pico & deca.

prefix		multiple	
nano			100
			deca
p			
symbol		prefix	

## Gridlock 3

Each row, column and 2 x 2 box contains information about each of the prefixes: kilo, mega, giga & tera.

prefix		multiple	
mega			$1 \times 10^3$
	G		tera
symbol		prefix	

## Multiples of units (16–18) – answers

prefix	multiple	symbol	prefix	multiple	symbol
deci	$1 \times 10^{-1}$	d	deca	10	da
<b>centi</b>	$1 \times 10^{-2}$	c	hecto	100	h
milli	<b><math>1 \times 10^{-3}</math></b>	m	<b>kilo</b>	$1 \times 10^3$	k
micro	$1 \times 10^{-6}$	$\mu$	mega	<b><math>1 \times 10^6</math></b>	M
<b>nano</b>	$1 \times 10^{-9}$	n	<b>giga</b>	$1 \times 10^9$	G
pico	$1 \times 10^{-12}$	p	tera	$1 \times 10^{12}$	T

### Gridlock 1 – answers

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

prefix		multiple	
milli	deci	$1 \times 10^{-2}$	$1 \times 10^{-6}$
micro	centi	$1 \times 10^{-3}$	$1 \times 10^{-1}$
d	m	micro	centi
c	$\mu$	deci	milli
symbol		prefix	

# gridlocks – can you unlock the grid?

## Gridlock 2 – answers

prefix		multiple	
nano	pico	10	100
deca	hecto	$1 \times 10^{-9}$	$1 \times 10^{-12}$
h	n	pico	deca
p	da	hecto	nano
symbol		prefix	

## Gridlock 3 – answers

prefix		multiple	
mega	tera	$1 \times 10^9$	$1 \times 10^3$
giga	kilo	$1 \times 10^{12}$	$1 \times 10^6$
k	G	mega	tera
T	M	kilo	giga
symbol		prefix	