## Maths

## Number and Place Value



## Need a coherently planned sequence of lessons to complement this resource?



See our Number and Place Value document.

## Read and Write

Numbers to 1000000


## Aim

- To read and write numbers up to at least 1000000.


## Success Criteria

- I can read and write numbers up to 1000000 in words.
- I can read and write numbers up to 1000000 in digits.
- I can partition numbers up to 1000000.
- I can make numbers up to 1000000.


## Remember It

Partition the numbers and write the value of each number in words. An example has been given.

| 421 | $400+20$ + 1 | four hundred and twenty-one |
| :---: | :---: | :---: |
| 909 |  |  |
|  |  | one thousand, two hundred and eight |
| 78560 |  |  |
|  | $60000+200+3$ |  |
| 90092 |  |  |

## Card Game

Shuffle a deck of cards.
You and your partner should each draw 5 cards at random.

Arrange your cards to make a 5-digit number.

Who can make the greatest number?


## Card Game

Shuffle the deck of cards again.
Draw another 5 cards each.

Who can arrange their cards to make the smallest 5 -digit number?


## Card Game

Shuffle the deck of cards again.
Draw another 5 cards each.

Who can arrange their cards to make a number closest to 50 000?


## The Rich List

The Rich List is a list of the richest people in the world. Lots of famous people appear on The Rich List, such as singers, actors and writers.

Many people on The Rich List earn millions of pounds for their work! It can be tricky to read such large numbers.

In today's lesson, we are going to look at how to read and write numbers up to at least one million.


## Reading Numbers

We can use a place value grid to help us read large numbers.

We always enter numbers into the place value grid starting from the right.

## 576293

| Ten <br> Millions | Millions | Hundred <br> Thousands | Ten <br> Thousands | Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5 | 7 | 6 | 2 | 9 | 3 |

## Reading Numbers

Place value counters help to recognise the value of each digit in each number.

Millions \begin{tabular}{c}
Hundred <br>
Thousands

 Thousands 

Thon <br>
Thousands
\end{tabular} Hundreds

The same number, 576293 has been represented using place value counters.

## Reading Numbers

What number has been represented with place value counters? Remember to work from right to left.


## Reading Numbers

What number has been represented with place value counters? Remember to work from right to left.


| Millions | Hundred <br> Thousands | Ten <br> Thousands | Thousands | Hundreds | Tens | Ones |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |

one million, ten hundred thousand, ten thousand and eleven

1101011
two million, ten thousand and eleven

## Reading Numbers

Ms Story is a famous writer.


## Reading Numbers

Were you able to read it?


## Reading Numbers

The place value grid helps us to see the value of each digit in the number so that we can read it easily.

## 576293

| Ten <br> Millions | Millions | Hundred <br> Thousands | Ten <br> Thousands | Thousands | Hundreds | Tens | Ones |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 5 | 7 | 6 | 2 | 9 | 3 |

Five hundred and seventy-six thousand, two hundred and ninety-three.

## Reading Numbers

Use the place value grid to help you read how much money these celebrities earned:

| Tara Singer earned £764830. |  |  |  |  |  | $\times$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Thomas Theatre made £57 847. |  |  |  |  |  | $\times$ |  |
| Dorothy Dancer earned $£ 2648539$. |  |  |  |  |  | $\times$ |  |
| $\begin{gathered} \text { Ten } \\ \text { Millions } \end{gathered}$ | Millions | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|  | 2 | あ | 6 | 3 | 8 | 3 | (1) |


| Fifty-seven thousand, eight hundred and forty-seven pounds. |
| :---: | :---: | :---: |

## Parts of Numbers

Each digit in a number tells us about a different part of the number.

A pop band earned $£ 675209$ last month. We can split this number into its separate parts.

## 675209

six hundred thousands
seven ten thousands
five thousands
nine ones
zero tens
two hundreds

## Parts of Numbers

A girl band earned $£ 802684$.

Can you describe each part of this number?


## Parts of Numbers

Can you work out how much Nicki Artist earned by putting together the parts of the number? Give the number in digits and in words.
three hundred thousands
nine thousands
zero tens
zero tens $\square$
$\square$

Nicki Artist earned $£ 319 \mathbf{4 0 5}$ or three hundred and nineteen thousand, four hundred and five pounds.

## Parts of Numbers

Choose the parts of numbers in one of these columns and give the number they make in words and digits. Be careful as some may be written out of order.

|  |  |  |
| :---: | :---: | :---: |
| five ten thousands, seven <br> thousands, three hundred, <br> four tens and nine ones | three tens, seven <br> thousands, five ones, eight <br> hundred thousands, seven <br> ten thousands and zero <br> hundreds | four millions, six ones, <br> four tens, eight hundred <br> thousands, nine hundreds, <br> three ten thousands and <br> zero thousands |


| 57349 <br> fifty-seven thousand, <br> three hundred and <br> forty-nine877035 <br> eight hundred and <br> seventy-seven thousand <br> and thirty-five | 4830946 <br> four million, eight <br> hundred and thirty <br> thousand, nine hundred <br> and forty-six |
| :---: | :---: | :---: |

## The Rich List Activity

Can you read and write the amounts that the different celebrities have earned?


## Diving into Mastery

Dive in by completing your own activity!


## Number Puzzles

Can you match up these numbers in words and digits?

676280 fix | four hundred and fifty-three thousand, seven |
| ---: |
| hundred and ninety-one |

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