



# Digit

Any of the ten numbers:  
0, 1, 2, 3, 4, 5, 6, 7, 8, 9

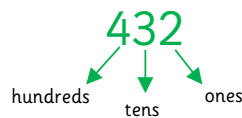


The number 23,452 has five digits.

# Place Value

The value of a digit, depending on its position.

For example- the numbers 432, 24, 2,004 all have the number 2 in it but the place value of 2 is different in all of them.



## Millions, Hundred Thousands, Ten Thousands, Thousands, Hundreds, Tens and Ones

| Millions | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
| 2        | 4                 | 1             | 3         | 6        | 2    | 7    |

This represents the number: two million, four hundred and thirteen thousand, six hundred and twenty-seven.

# Sequence

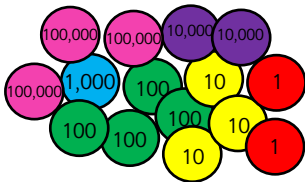
A list of numbers that follow a particular pattern or rule.

Each number in a sequence is called a term of the sequence.

1, 3, 5, 7, 9...

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# Compare



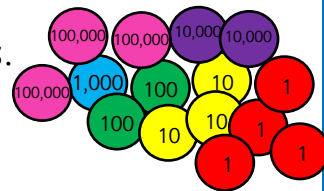
321,432

Looking at the difference between numbers.

Is one greater than the other?

Are they equal to each other?

How do you know?



321,234

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# Numeral

A numeral is a **symbol** or **name** that stands for a number.

For example: 7, ten, 15 and eleven are all numerals.

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# Integers

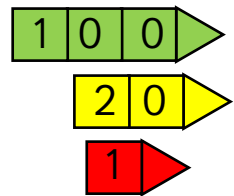
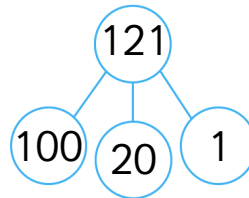
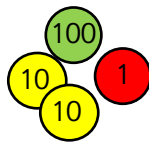
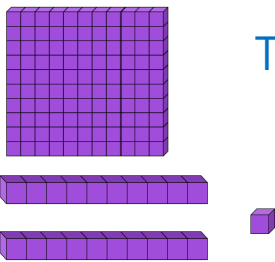
Whole numbers. These can be positive or negative.

For example, 4, 78, 124, -34

# Representation

Pictorial representation- we can use pictures in maths to stand for a number.

These pictures all represent the number 121.



# Place Value Counters

Counters that can help you find the place value of each digit of a number.



1,432,241 has 1 million, 4 hundred thousands, 3 ten thousands, 2 hundreds, 4 tens and 1 one.

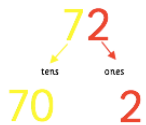


# Strategy

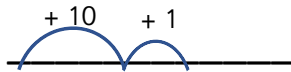
A plan to help you get the answer.

There are many strategies you can use in maths.

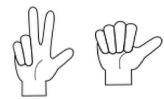
Partitioning



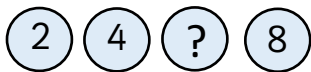
Number lines



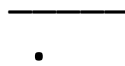
Using your fingers



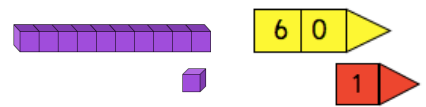
Finding a pattern



Drawing a picture

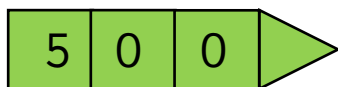
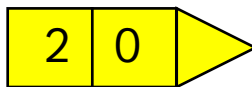
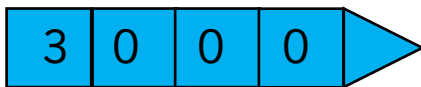
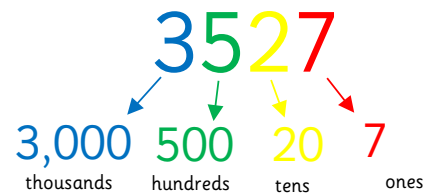


Using equipment

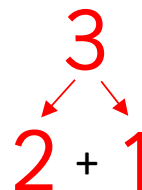


# Partition

To split/ separate/ divide numbers into smaller parts.  
This can make calculations easier.

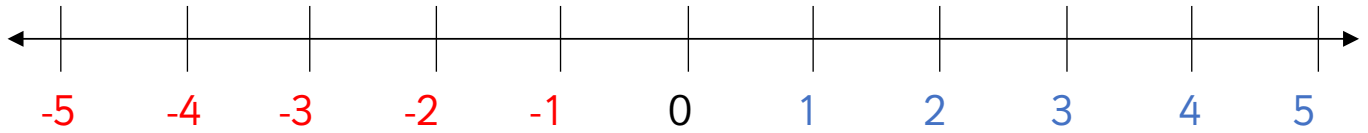


You can also partition smaller numbers.



# Negative Numbers

Numbers less than zero.



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# Place Value Chart

A chart or grid to show the place value of digits.

| Millions | Hundred Thousands | Ten Thousands | Thousands | Hundreds | Tens | Ones |
|----------|-------------------|---------------|-----------|----------|------|------|
| 2        | 4                 | 1             | 3         | 6        | 2    | 7    |

| Millions | Hundred Thousands | Ten Thousands | Thousands | Hundreds  | Tens | Ones      |
|----------|-------------------|---------------|-----------|-----------|------|-----------|
| • •      | • • • •           | •             | • • •     | • • • • • | • •  | • • • • • |

They can contain numbers, counters to represent a number, or place value counters.

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# Power of 10

10 multiplied by itself a certain number of times.

10, 100, 1,000, 10,000, 100,000, 1,000,000...

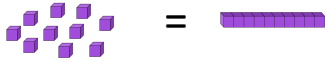
(By definition, the number 1 is a power of 10)

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# Exchange

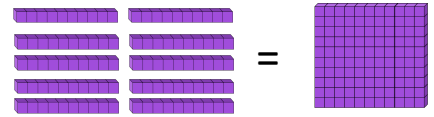
Changing one thing for another.

10 ones for 1 ten

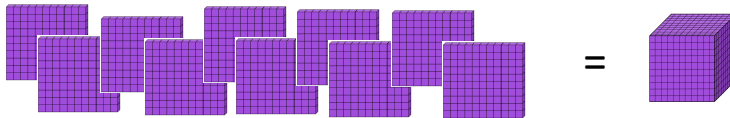


You can exchange:

10 tens for 1 hundred



10 hundreds for 1 thousand



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# Roman Numerals

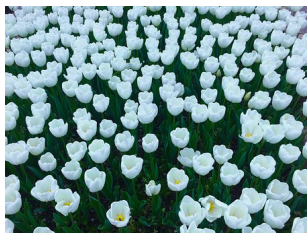
Numbers that were used in ancient Rome.

Roman numerals are based on these symbols.

I V X L C D M

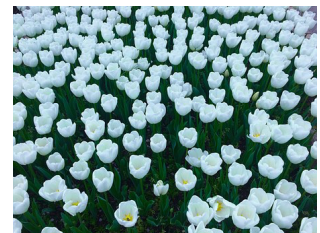
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# Estimate



A reasonable guess.

How many?



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# Rounding to 10

Making a number simpler but keeping the value close to what it was.

46 rounds up to 50 which is the nearest 10.      246 rounds up to 250 which is the nearest 10.

3,246 rounds to 3,250 which is the nearest 10.

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# Rounding to 100

Making a number simpler but keeping the value close to what it was.

278 rounds up to 300 which is the nearest 100.

3,278 rounds up to 3,300 which is the nearest 100.

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# Rounding to 1,000

Making a number simpler but keeping the value close to what it was.

4,367 rounds down to 4,000 which is the nearest 1,000.

4,867 rounds up to 5,000 which is the nearest 1,000.

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# Rounding to 100,000

Making a number simpler but keeping the value close to what it was.

234,446 rounds down to 200,000 which is the nearest 100,000.

274,446 rounds up to 300,000 which is the nearest 100,000.

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# Multiples

A number that can be divided by another number without a remainder.

Multiples of 5:

5

10

15

20

25

30

35

40

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# Approximate

Not completely accurate, but close enough to be used.



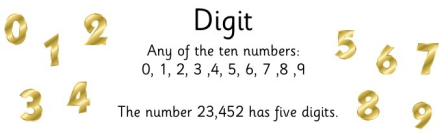
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Number - Place Value Year 6

## Digit

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The number 23,452 has five digits.



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Number - Place Value Year 6

## Sequence

A list of numbers that follow a particular pattern or rule.

Each number in a sequence is called a term of the sequence.

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Number - Place Value Year 6

## Integers

Whole numbers. These can be positive or negative.

For example, 4, 78, 124, -34


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Number - Place Value Year 6

## Place Value

The value of a digit, depending on its position.

For example- the numbers 432, 24, 2,004 all have the number 2 in it but the place value of 2 is different in all of them.



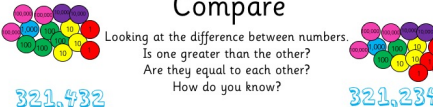
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Number - Place Value Year 6

## Compare

Looking at the difference between numbers. Is one greater than the other? Are they equal to each other? How do you know?

321, 432 vs 321, 234



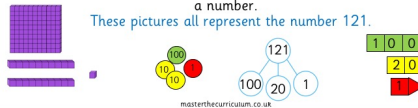
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Number - Place Value Year 6

## Representation

Pictorial representation- we can use pictures in maths to stand for a number.

These pictures all represent the number 121.



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Number - Place Value Year 6

## Millions, Hundred Thousands, Ten Thousands, Thousands, Hundreds, Tens and Ones

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Number - Place Value Year 6

## Numeral

A numeral is a **symbol** or **name** that stands for a number.

For example: 7, ten, 15 and eleven are all numerals.

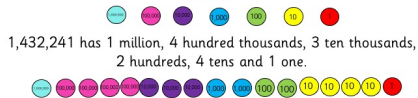
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Number - Place Value Year 6

## Place Value Counters

Counters that can help you find the place value of each digit of a number.

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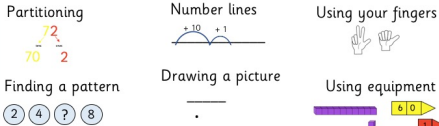
Number - Place Value Year 6

## Strategy

A plan to help you get the answer.

There are many strategies you can use in maths.

Partitioning, Number lines, Using your fingers, Finding a pattern, Drawing a picture, Using equipment

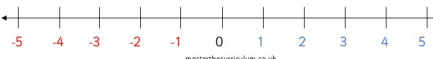


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Number - Place Value Year 6

## Negative Numbers

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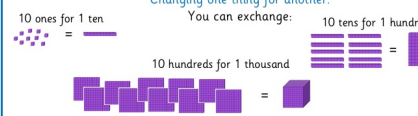
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Number - Place Value Year 6

## Exchange

Changing one thing for another. You can exchange:

10 ones for 1 ten, 10 tens for 1 hundred, 10 hundreds for 1 thousand



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Number - Place Value Year 6

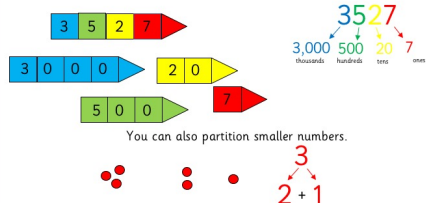
## Partition

To split/ separate/ divide numbers into smaller parts. This can make calculations easier.

3527, 3000, 500, 20, 7

You can also partition smaller numbers.

3 = 2 + 1



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Number - Place Value Year 6

## Place Value Chart

A chart or grid to show the place value of digits.

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They can contain numbers, counters to represent a number, or place value counters.

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Number - Place Value Year 6

## Roman Numerals

Numbers that were used in ancient Rome. Roman numerals are based on these symbols.

I V X L C D M

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Number - Place Value Year 6

## Power of 10

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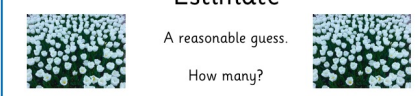
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Number - Place Value Year 6

## Estimate

A reasonable guess. How many?



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Number - Place Value Year 6

## Rounding to 10

Making a number simpler but keeping the value close to what it was.

46 rounds up to 50 which is the nearest 10. 246 rounds up to 250 which is the nearest 10. 3,246 rounds to 3,250 which is the nearest 10.

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Number - Place Value Year 6

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Number - Place Value Year 6

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Number - Place Value Year 6

## Multiples

A number that can be divided by another number without a remainder.

Multiples of 5: 5, 10, 15, 20, 25, 30, 35, 40

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Number - Place Value Year 6

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Number - Place Value Year 6

## Approximate

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Year 6 – Place Value Vocabulary Assessment

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|  |  |                   |  |                      |  |
|--|--|-------------------|--|----------------------|--|
| Place Value                                |  | Digit             |  | Numerals             |  |
| Millions, Hundred Thousands, Ten Thousands |  | Sequence          |  | Compare              |  |
| Integers                                   |  | Representation    |  | Place Value Counters |  |
| Strategy                                   |  | Partition         |  | Negative Numbers     |  |
| Place Value Chart                          |  | Power of 10       |  | Exchange             |  |
| Roman Numerals                             |  | Estimate          |  | Rounding to 10       |  |
| Rounding to 100                            |  | Rounding to 1,000 |  | Rounding to 100,000  |  |
| Multiples                                  |  | Approximate       |  |                      |  |

Year 6 – Place Value Vocabulary Assessment

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|  |  |                   |  |                      |  |
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