Unit 1

Place value within 10,000,000

In this unit we will ...

- Learn to read and write numbers to 10,000,000
- Partition, compare and order numbers up to 10,000,000
- Round numbers
- Work with negative numbers

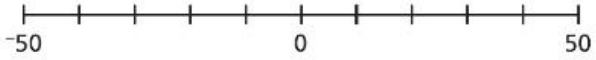
Do you remember what this is called? We will use it to help identify the place value of digits in a number.

M	HTh	TTh	Th	H	T	O
1	0	0	0	0	0	0

We will need some maths words. Can you explain the words you have met before?

- ten thousands (10,000s)
- hundred thousands (100,000s)
- millions (1,000,000s)
- ten million (10,000,000)
- place value
- partition
- interval
- estimate
- compare
- order
- rounding
- negative
- positive

We will use this too! Can you find what the unlabelled values are?



Unit 2
Four operations 1

In this unit we will ...

- Use written methods for addition and subtraction
- Find common factors and multiples
- Learn about prime, square and cube numbers

We will need some maths words. Can you identify and explain the ones you already recognise?

column addition **remainder** **factor**

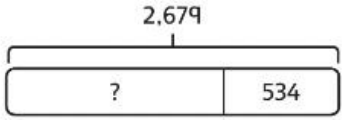
common factor **common multiple**

prime **composite**

squared (x^2) **cubed (x^3)**

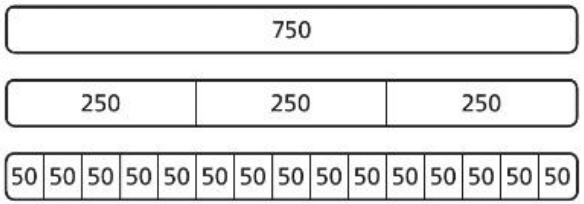
Do you remember what this model is called? We will use it to represent different calculations.

What calculation is being shown here?



We could use this to help us represent division calculations. Can you explain how it has been used here?

750 ÷ 15



Unit 3
Four operations 2

In this unit we will ...

- Use written methods for multiplication and division
- Learn about the order of operations
- Solve mental calculations

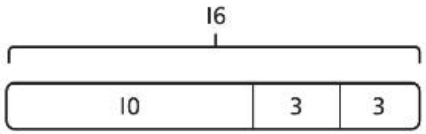
We will need some maths words. Can you identify and explain the ones you recognise?

factor **short division** **long division**

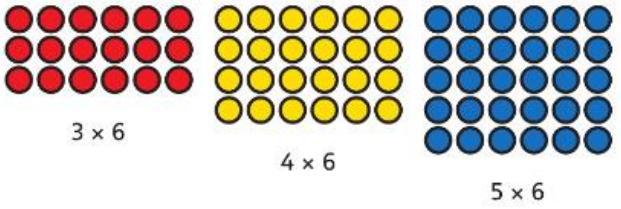
column multiplication **long multiplication**

order of operations **brackets** **inverse operation**

Do you remember what this model is called? We will use it to represent different calculations. Can you tell what calculation is being represented here?



We will need to remember multiplication facts. We could use arrays of counters to help us!

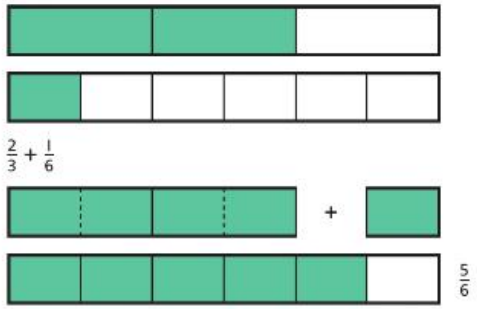


Unit 4
Fractions 1

In this unit we will ...

- Simplify fractions
- Compare and order fractions
- Add and subtract fractions including mixed numbers
- Solve problems involving adding and subtracting fractions

Do you remember how to add two fractions where one denominator is a multiple of another?



$\frac{2}{3} + \frac{1}{6}$

$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$

We will need some maths words. Do you know what they all mean?

numerator | denominator | common denominator | common factor | equivalent | simplify | simplest form | factor | highest common factor | lowest common multiple (LCM) | compare | order | improper fraction | mixed number | convert | lowest common denominator

We also need to be able to find where a fraction is on a number line.

Unit 5
Fractions 2

In this unit we will ...

- Multiply any fraction by a whole number or another fraction
- Divide a fraction by a whole number
- Solve problems involving all four operations with fractions
- Solve problems involving a fraction of an amount

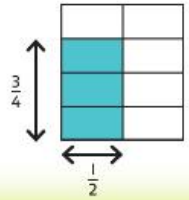
We will need some maths words.
How many of these can you remember?

numerator **denominator** **whole number**

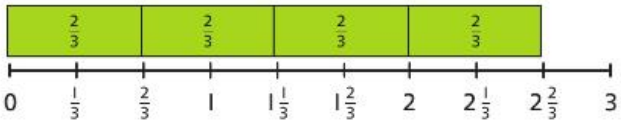
mixed number **convert** **simplify** **integer**

improper fraction **proper fraction**

You will be able to multiply a fraction by a fraction by showing each fraction on the side of a grid. What is $\frac{1}{2} \times \frac{3}{4}$?



We can use a fraction strip above a number line to help us multiply a fraction by a whole number and convert between improper fractions and mixed numbers. What is $\frac{2}{3} \times 4$ as a mixed number?



Unit 6

Measure – imperial and metric measures

In this unit we will …

- Choose the most appropriate metric units of measurement to measure different things
- Convert between metric units, between imperial units and from one to the other
- Solve problems involving metric units
- Recognise the difference between metric and imperial units of measurement and what they are worth

What is 1 inch about the same as?
What are 5 inches about the same as?

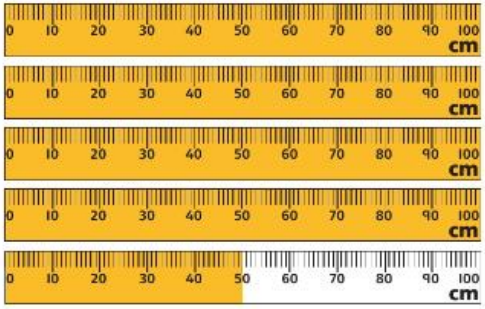
5 inches

1 inch	1 inch	1 inch	1 inch	1 inch
2·5 cm	2·5 cm	2·5 cm	2·5 cm	2·5 cm

Here are some maths words we will be using. Which words are new to you?

metric | imperial | units of measurement (or measure)
grams (g) | kilograms (kg) | pounds (lbs)
ounces (oz) | feet (ft) | yards | millilitres (ml)
litres (l) | pints | capacity | millimetres (mm)
centimetres (cm) | metres (m) | kilometres (km)
inches (in) | mass | miles | length | convert
conversion table | conversion graph

If there are 100 cm in a metre, how would you convert 4·5 m into centimetres?



1 m = 100 cm