

# Being a mathematician in Two

## A year Two Mathematician

### Number

- I know how to count in steps of 2, 10 and 5 from any number up to 100.
- I know how to recognise the place value of each digit in a two-digit number.
- I know how to identify, represent and estimate numbers using different representations, including the number line
- I know how to compare and order numbers both increasing and decreasing from 0 up to 100 using  $<$ ,  $>$  and  $=$
- I know how to read and write numbers to at least 100 in numerals and in words.
- I know how to use place value and number facts to solve problems.

### Calculations

- I know how to solve problems with addition and subtraction.
- I know how to recall and use addition and subtraction facts to 20 fluently.
- I know how to work out and use related facts to 100.
- I know how to add and subtract a two-digit number and ones.
- I know how to add and subtract a two-digit number and tens.
- I know how to add two, two-digit numbers.
- I know how to subtract two, two-digit numbers mentally where there is no regrouping. (74-33)
- I know how to add three one-digit numbers.
- I know that addition can be done in any order.
- I know the relationship between addition and subtraction and can use this to check calculations and solve missing number problems.
- I know how to recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables.
- I know how to calculate statements for multiplication and division tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals ( $=$ ) signs.
- I know that multiplication of two numbers can be done in any order.
- I know how to solve problems involving multiplication and division (using materials, arrays, repeated addition,  $\times/\div$  facts)

### Fractions

- I know how two quarters is the same as one half.
- I know how to write simple fractions for example  $\frac{1}{2}$  of 6 = 3
- I know how to recognise, name and write fractions  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  and  $\frac{3}{4}$  of a length, shape, set of objects or quantity.

### Measurement

- I know how to estimate and measure length and height, mass, temperature and capacity to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.
- I know how to compare and order lengths, mass, volume/capacity and record the results using  $>$ ,  $<$  and  $=$
- I know how to read scales in divisions of 1s, 2s, 5s and 10s where all numbers on scale are given.
- I know how to recognise and use symbols for pounds (£) and pence (p).
- I know how to combine different amounts of money to make a particular value.
- I know how to solve problems involving addition and subtraction of money of the same unit, including giving change.
- I know how to compare and sequence intervals of time.
- I know how to read the time on the clock to the nearest 15 minutes.
- I know how to draw hands on a clock face.
- I know the number of minutes in an hour and the number of hours in a day

### Shape

- I know how to name and describe 2D shapes, by the number of sides, right angles and symmetry.
- I know how to name and describe 3D shapes, by the number of edges, vertices, faces and right angles.
- I know how to recognise 2D shapes on the surface of 3D shapes.
- I know how to compare and sort common 2D and 3D shapes and everyday objects.
- I know how to create a repeating pattern.
- I know how to describe position, direction and movement (clockwise, anti-clockwise, quarter, half and three-quarter turns).

### Statistics

- I know how to create a pictogram, tally chart, block diagram and table.
- I know how to ask and answer simple questions by counting the number of objects.