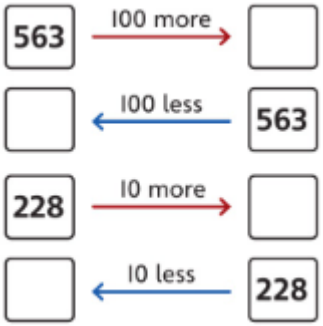
Year 3 mathematics. *What you need to know.*

**Number and Place Value**

- Count from 0 in multiples of 4, 8, 50 and 100.
- Find 10 or 100 more or less than a given number.

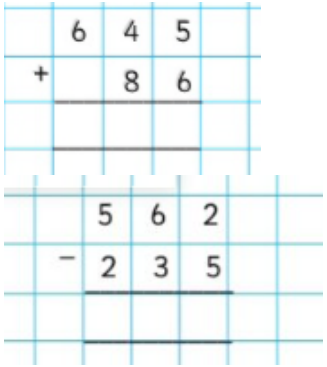



- Compare and order numbers up to 1000.

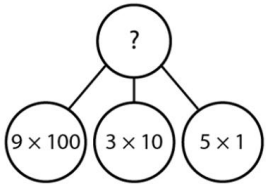

- Read and write numbers up to 1000 in numerals and in words.

**Addition and Subtraction**

- Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

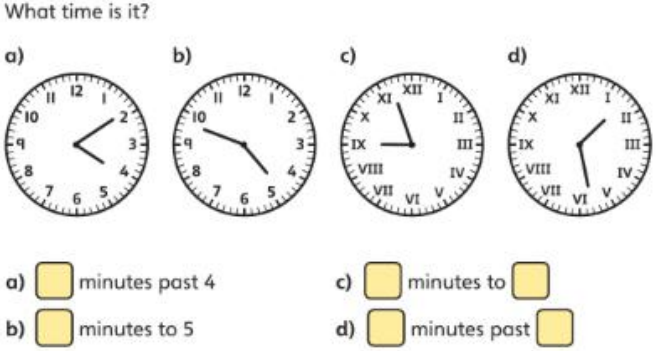



- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.




**Measurement**

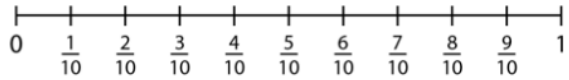
- Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight.
- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24- hour clocks.




- Know the number of seconds in a minute and the number of days in each month, year and leap year.
- Measure, compare, add and subtract: lengths (m/cm/ mm); mass (kg/ g); volume/capacity (l/ml).
- Measure the perimeter of simple 2-D shapes.
- Add and subtract amounts of money to give change, using both £ and p in practical contexts.

**Fractions**

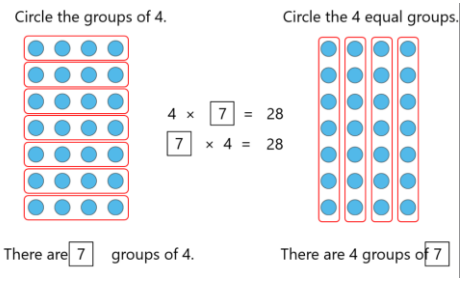
- Students will count up and down in tenths.




- Recognise, find and write fractions of a discrete set of objects

**Multiplication and Division**

- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.




**Geometry**

**Shape**

- Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.

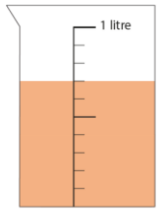
- Recognise angles as a property of shape or a description of a turn.
- Identify right angles, recognise that two right angles make a halfturn, three make threequarters of a turn

$\frac{11}{18}$ of a pack of biscuits has been eaten.

What fraction of the packet is left?

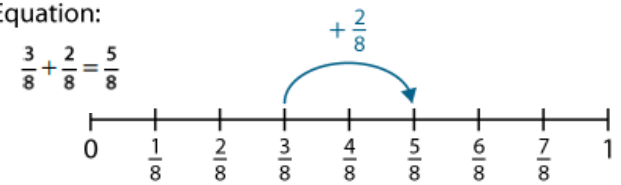
- Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one – digit numbers or quantities by 10.

How much juice is left?




- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.
- Compare and order unit fractions, and fractions with the same denominators.
- Add and subtract fractions with the same denominator

Equation:

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$\boxed{6} \times 8 = \boxed{48}$ $8 \times \boxed{6} = \boxed{48}$

- 
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit using mental and progressing to formal written methods

$$\begin{array}{r} 123 \\ \times \quad 3 \\ \hline 269 \\ \hline \end{array}$$

and four a complete turn; identify whether angles are greater than or less than a right angle.

- Identify horizontal and vertical lines and pairs of

Which of these lines is horizontal?

a ☐ 

b ☐ 

c ☐ 

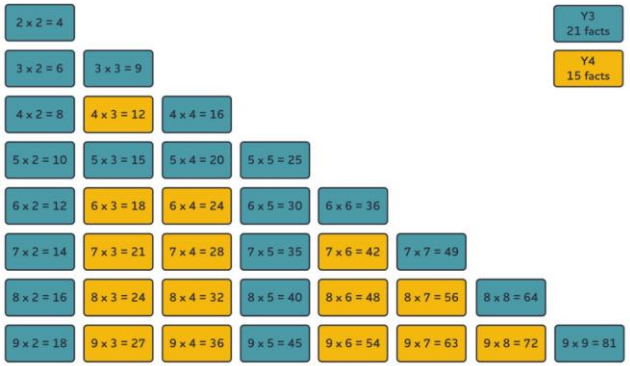
d ☐ 

**Number Sense**

At Newington Green we are committed to supporting the children achieve as best they can. Our Number Sense programme provides the structure and depth to times tables teaching that children need to achieve fluency in multiplication and division facts and concepts. It is a mastery programme, designed to achieve fluency for every child as they work towards their Multiplication Tables Check MTC.

**Ways to help your child at home**

Practice the Y3 number facts (blue boxes) at home as frequently as possible.




**Statistics**

- Interpret and present data using bar charts, pictograms and tables.
- Solve one-step and two-step questions
- 'How many more?' and 'How many fewer?'
- using information presented in scaled bar charts and pictograms and tables.

*Which year group had the most children with 100% attendance?*