

Your child's journey as a mathematician in our school.

Presented by the Maths Team

Maths

"Maths is not about numbers, equations or agorithms: it is about understanding."

— Unknown

"The only way to learn mathematics is to do mathematics"

—Einstein

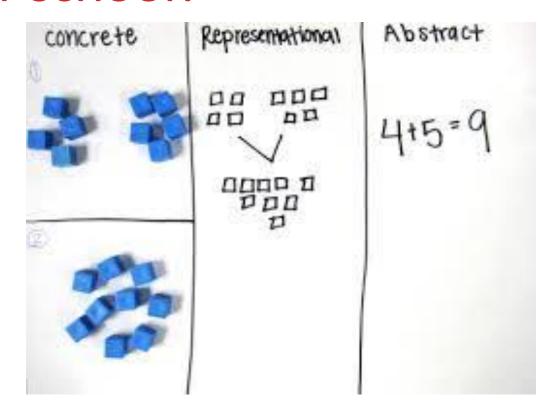
"What's really neat about maths is that even when there's only **one** right answer there's never only **one** right way to solve the problem."

Herb Gross

"Maths is like chickenpox – the younger you get it the better!"

Unknown

How is maths taught in our school?

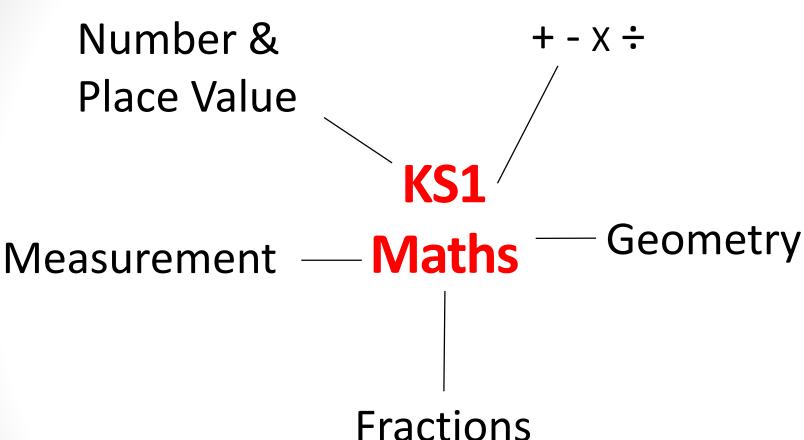


FLUENCY

REASONING

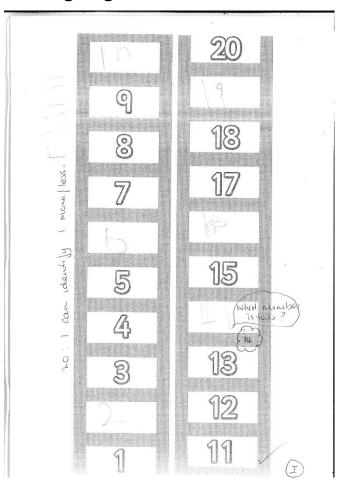
PROBLEM-SOLVING

Calculations



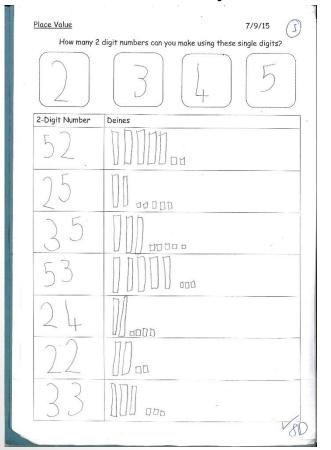
Number and Place Value – year 1

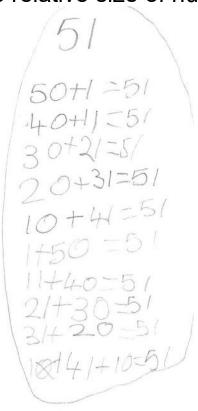
- Count, both forwards and backwards, from any number, including past 100
- Read and write numbers up to 100 as digits (1-20 in words)
- Find 'one more' or 'one less' than a number
- Use mathematical language such as 'more', 'less', 'most', 'least' and 'equal'



Number and Place Value – year 2

- Recognise place value in two-digit numbers, e.g. knowing that the 1 in 17 represents 10
- Read and write numbers up to 100 as words
- Count in 2s, 3s and 5s
- Compare and order numbers up to 100
- Use the < and > symbols to represent the relative size of numbers





What you can do at home:

How many?

Odd/Even?



1 less?

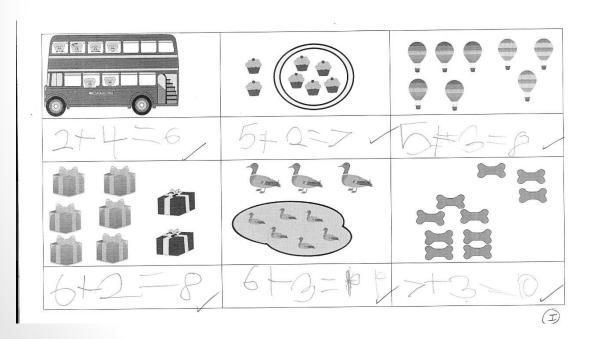


10 more?



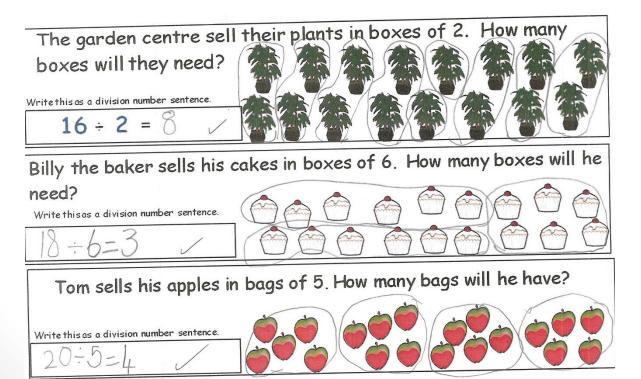
Calculations – year 1

- Use the +, -- and = symbols to write and understand simple number calculations
- Add and subtract one- and two-digit numbers, up to 20
- Solve missing number problems, such as 10 ? = 6
- Begin to use simple multiplication by organising and counting objects



Calculations – Year 2

- Recall number bonds up to 20 fluently
- Add and subtract numbers mentally and using objects, including two-digit numbers
- Show that adding two numbers can be done in any order, but subtracting cannot
- Recognise that addition and subtraction are inverse operations
- Learn the multiplication and division facts for the 2x, 5x and 10x tables
- Show that multiplying two numbers can be done in any order, but dividing cannot
- Solve problems using the x and ÷ symbols



Calculations – What you can do

at home:



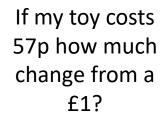
What's the total?



How many pieces of fruit altogether?

How many lots of 2?

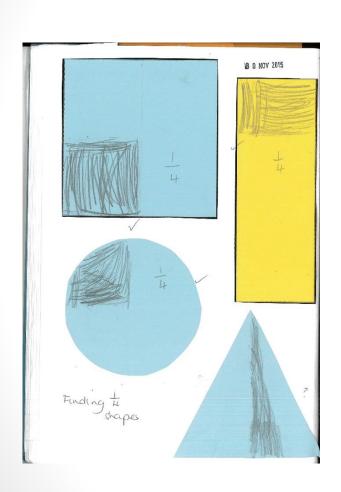
Group them into 3s – how many groups?

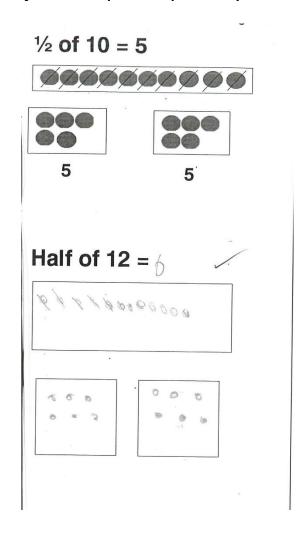




Fractions - Year 1

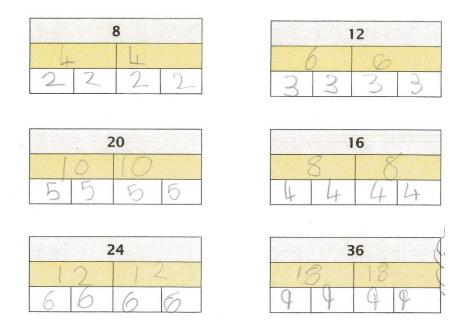
• Understand ¼ and ½ as equal parts of an object, shape or quantity





Fractions - Year 2

- Find ¼, ¾ of an object or set of objects
- Find the answer to simple fraction problems, such as finding ½ of 6



Use your fraction walls to help you solve these:

$$\frac{1}{2}$$
 of $8 = \frac{1}{4}$ of $12 = \frac{1}{4}$ of $16 = \frac{1}{4}$ $\frac{1}{4}$ of $20 = \frac{1}{5}$ $\frac{1}{5}$

Fractions - What you can do at home.



What fraction have you eaten?

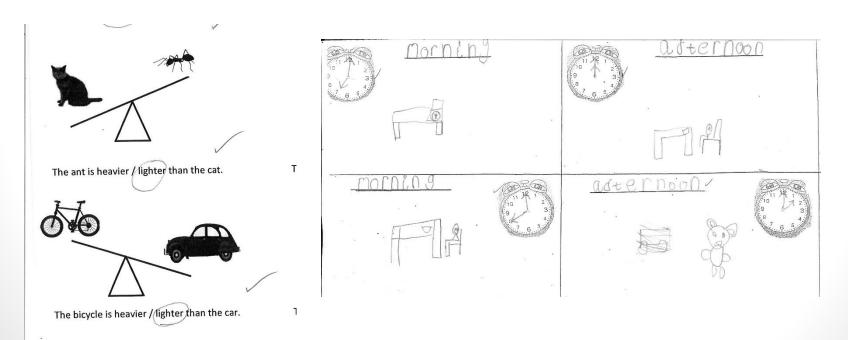
If I eat 3 slices what fraction have I eaten?





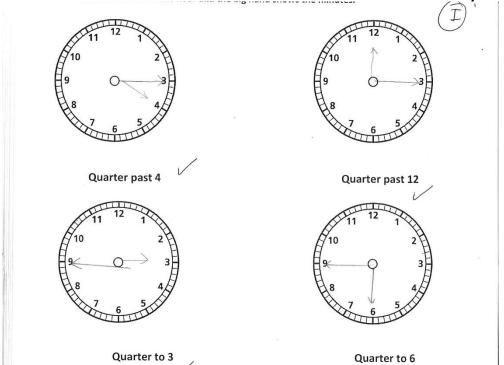
Measurement - year 1

- Use practical apparatus to explore different lengths, weights and volumes
- Use language such as 'heavier', 'shorter' and 'empty' to compare things they have measured
- Recognise the different coins and notes of British currency
- Use language of time, such as 'yesterday', 'before', days of the week and months of the year
- Tell the time to the hour and half-hour, including drawing clock faces



Measurement – year 2

- Use standard units to measure length (centimetres and metres), mass (grams and kilograms), temperature (degrees Celsius) and capacity (millilitres and litres)
- Use the £ and p symbols for money amounts
- Combine numbers of coins to make a given value, for example to make 62 pence
- Tell the time to the nearest five minutes on an analogue clock
- Know the number of minutes in an hour and hours in a day



Measurement – What you can do at home



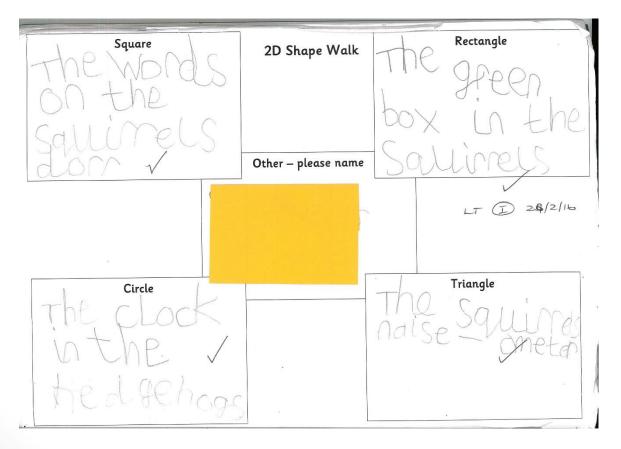






Geometry – Year 1

- Recognise and name some common 2-d shapes, such as squares, rectangles and triangles
- Recognise and name some common 3-d shapes, such as cubes, cuboids and spheres
- Describe movements, including quarter turns

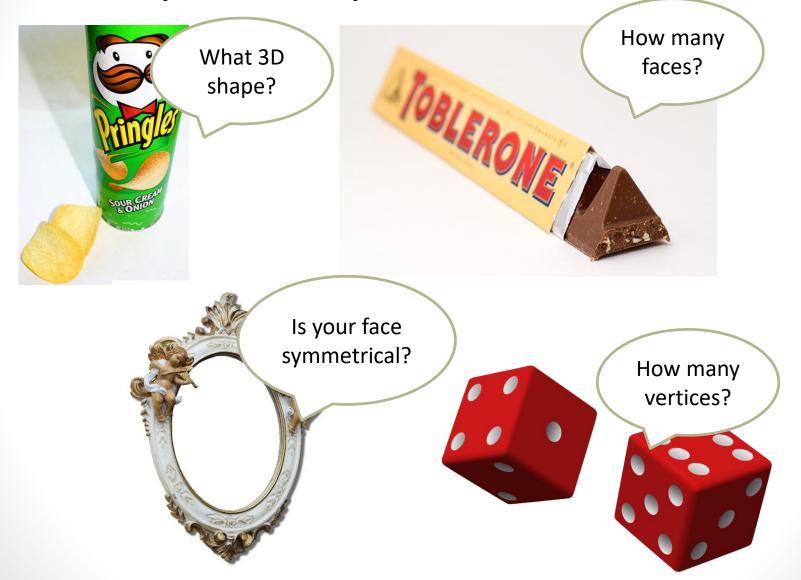


Geometry – Year 2

- Identify the number of sides, vertices and a line of symmetry on 2-d shapes
- Identify the number of faces, edges and vertices on 3-d shapes
- Use mathematical language to describe position and direction, including rotations and turns

3D SHAPE PROPERTIES SHEET 5 Fill in the name, and number of faces, edges and vertices for each shape. Name: translular Name: uho Faces: 5 Faces: 6 Edges: 9 Edges: 8 Vertices:6 Vertices: 8 Name: 501 Name: Faces: 6 Faces: [7] Edges:12 Edges: Vertices: 8 Vertices: 4 Name: the cylinder Name: Caro Faces: 3 Faces: 2 Edges: Edges: Vertices; Vertices: Name: Squay P Name: Sphon Faces: 5 Faces: Edges: Edges: Vertices: 5 Vertices:

Geometry – What you can do at home.



Different methods of recording

$$39 + 43 =$$
 $40+30=70$
 $9+3=12$
 $70+12=82$

