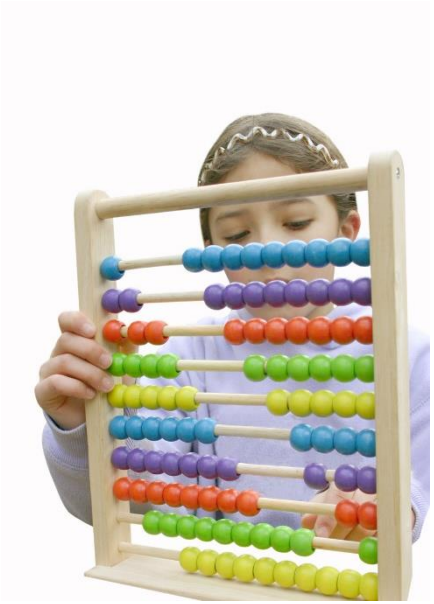
"They didn't do it like that when I was at school!"



- Do your children ask for help with their maths homework and start talking in another language, using words like 'partitioning', 'chunking', 'grid multiplication'.....?

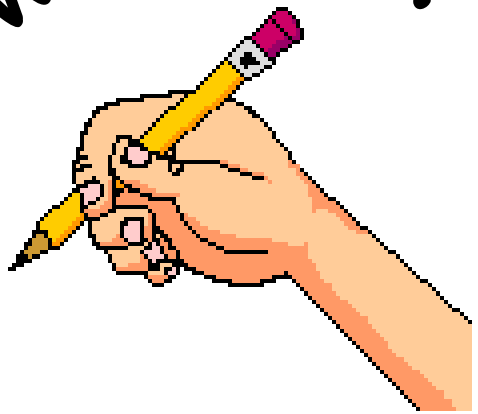
- If so, you may feel the need for some translation. This workshop is designed to explain some of the methods used to teach calculation in schools following the New Primary Curriculum 2014.

Which is more important:

mental calculation ?

or

written ?



This will depend on the numbers involved and the individual child.

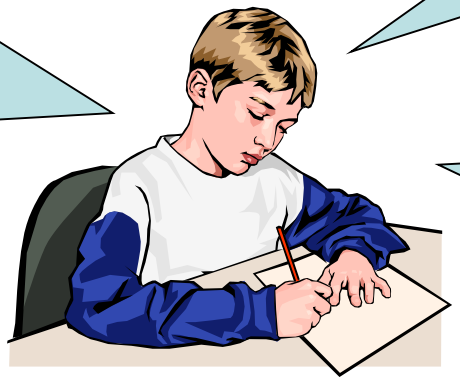
When faced with a calculation, no matter how large or difficult the numbers may appear to be, we should encourage children to ask themselves...

Can I do this in my head?

What do I know or can I use to help me?

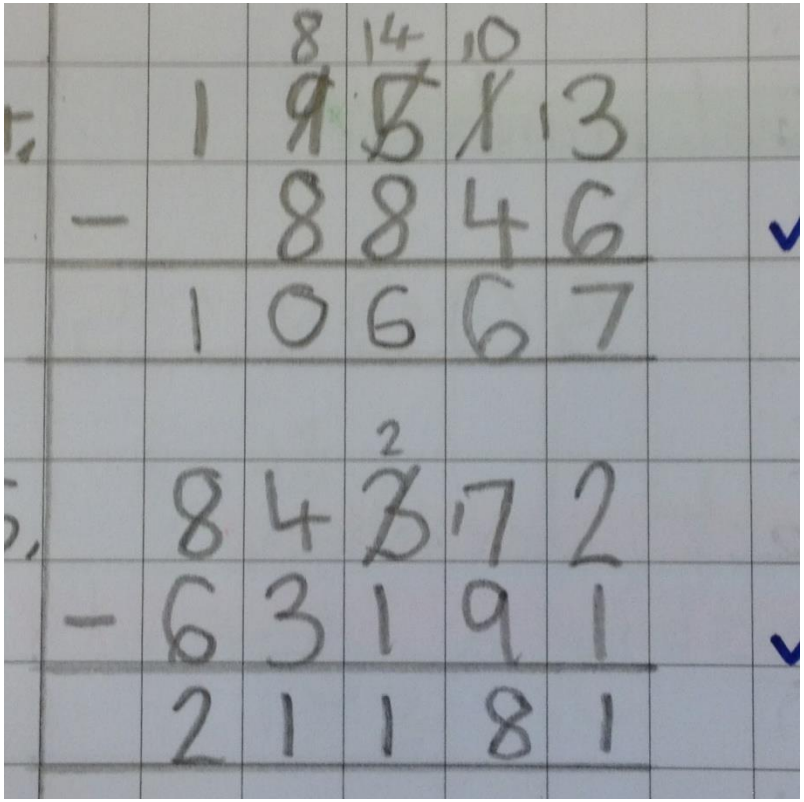
Do I know the approximate size of the answer?

If I can't do it wholly in my head, what do I need to write down in order to help me calculate the answer?



Will the written method I know be helpful?

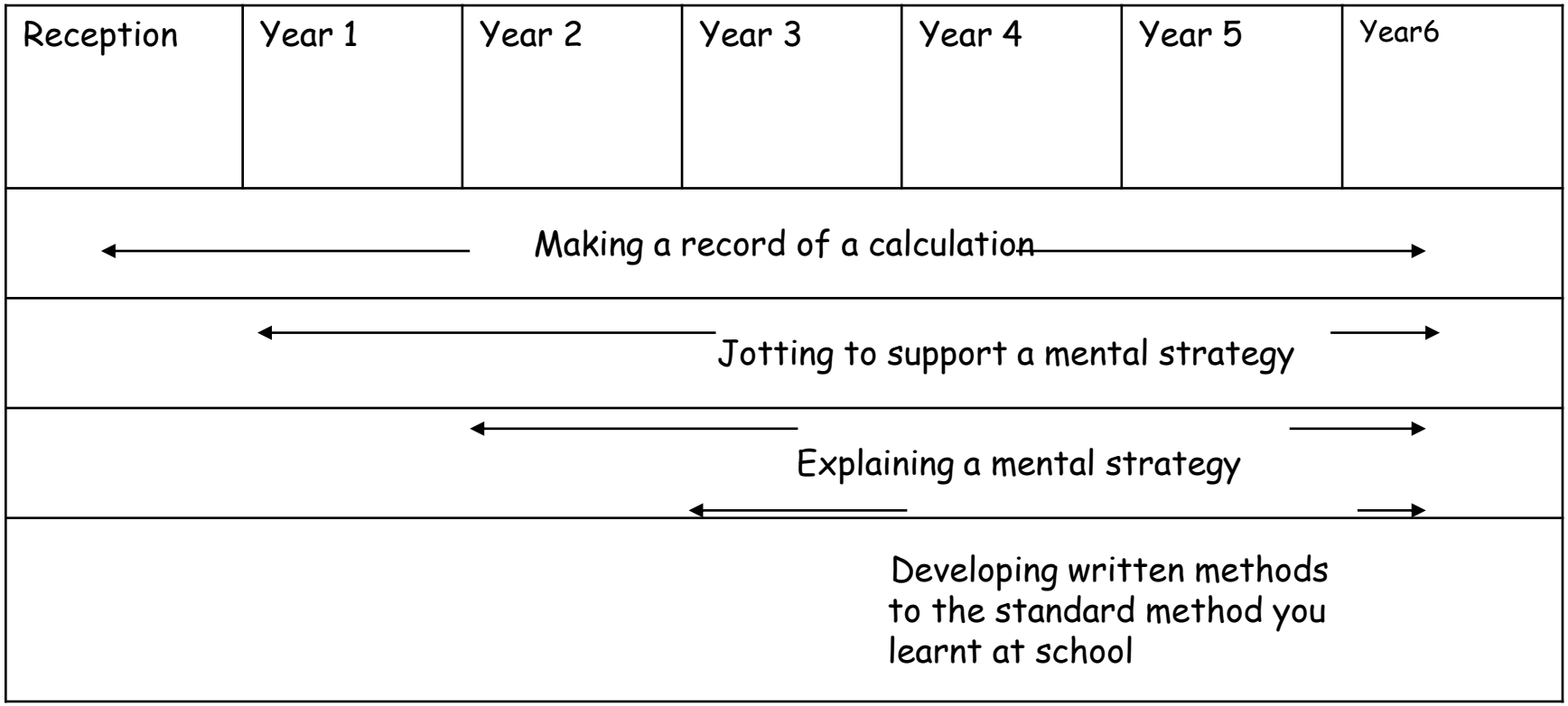
When do children need to start recording?



Problems will start off being verbal questions and will become more formal as they progress through Key Stage 1.

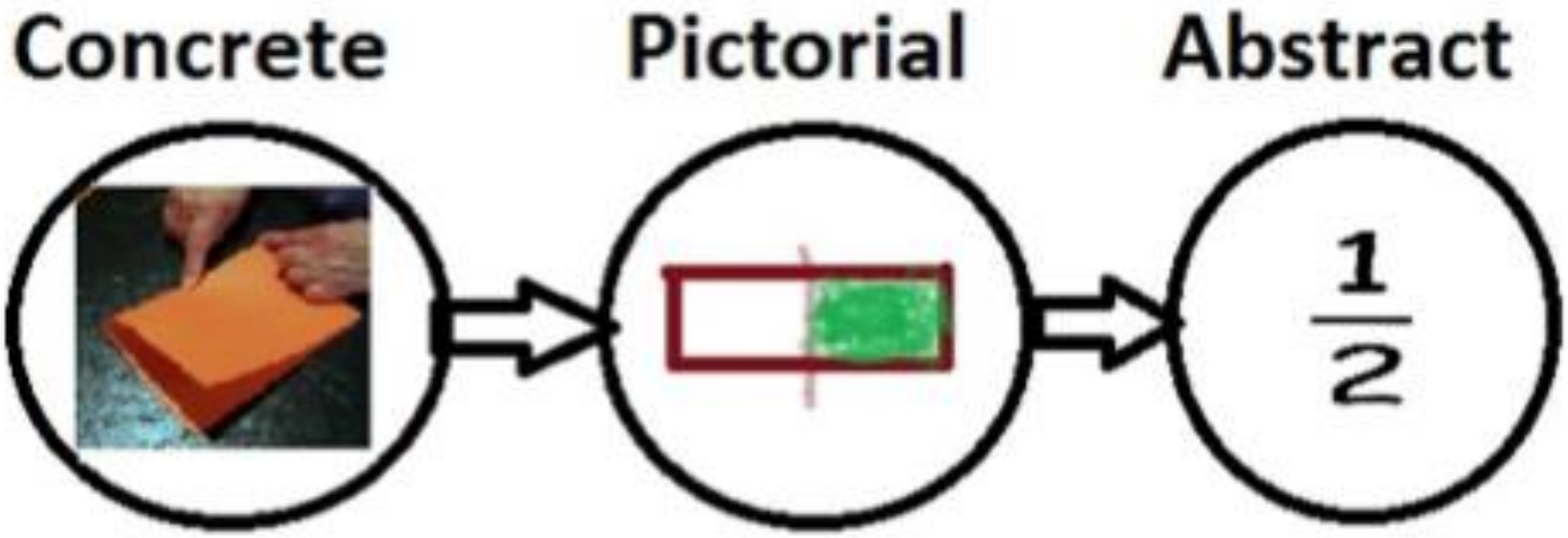
When do children need to start recording?

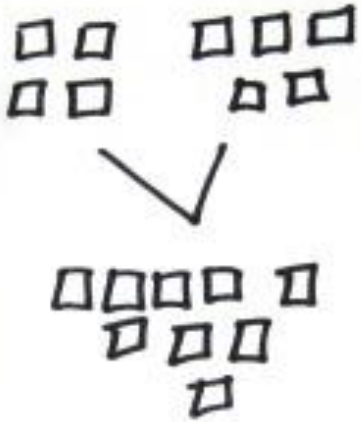
- The following table shows how some sort of recording is relevant throughout the primary years with mental strategies playing an important role throughout.

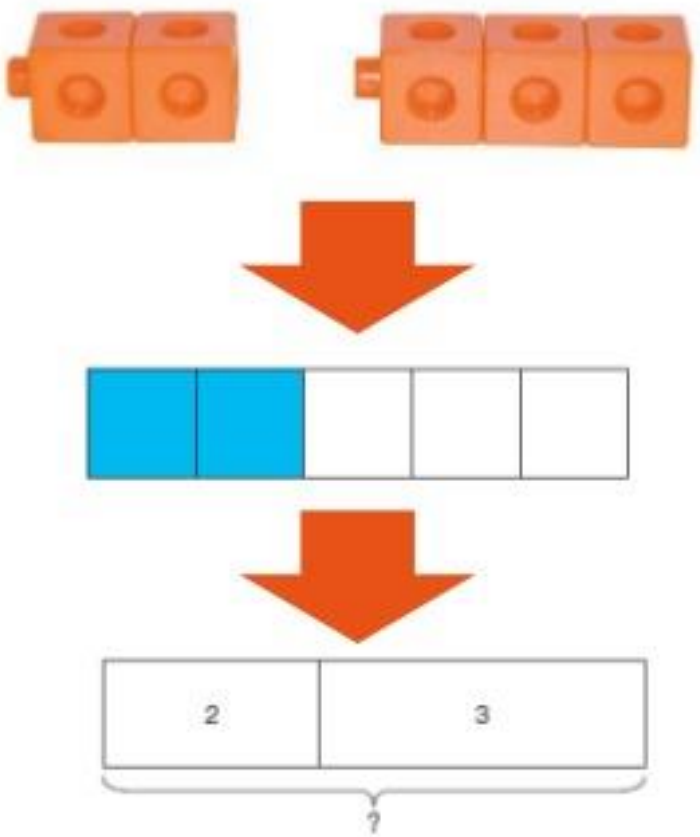


It is important to encourage children to look first at the problem and then get them to decide which is the best method to choose – use of concrete resources, pictures, mental calculation with or without jottings, or more formal written recordings.

The CPA Approach



concrete	Representational	Abstract
① 		4+5=9
② 		

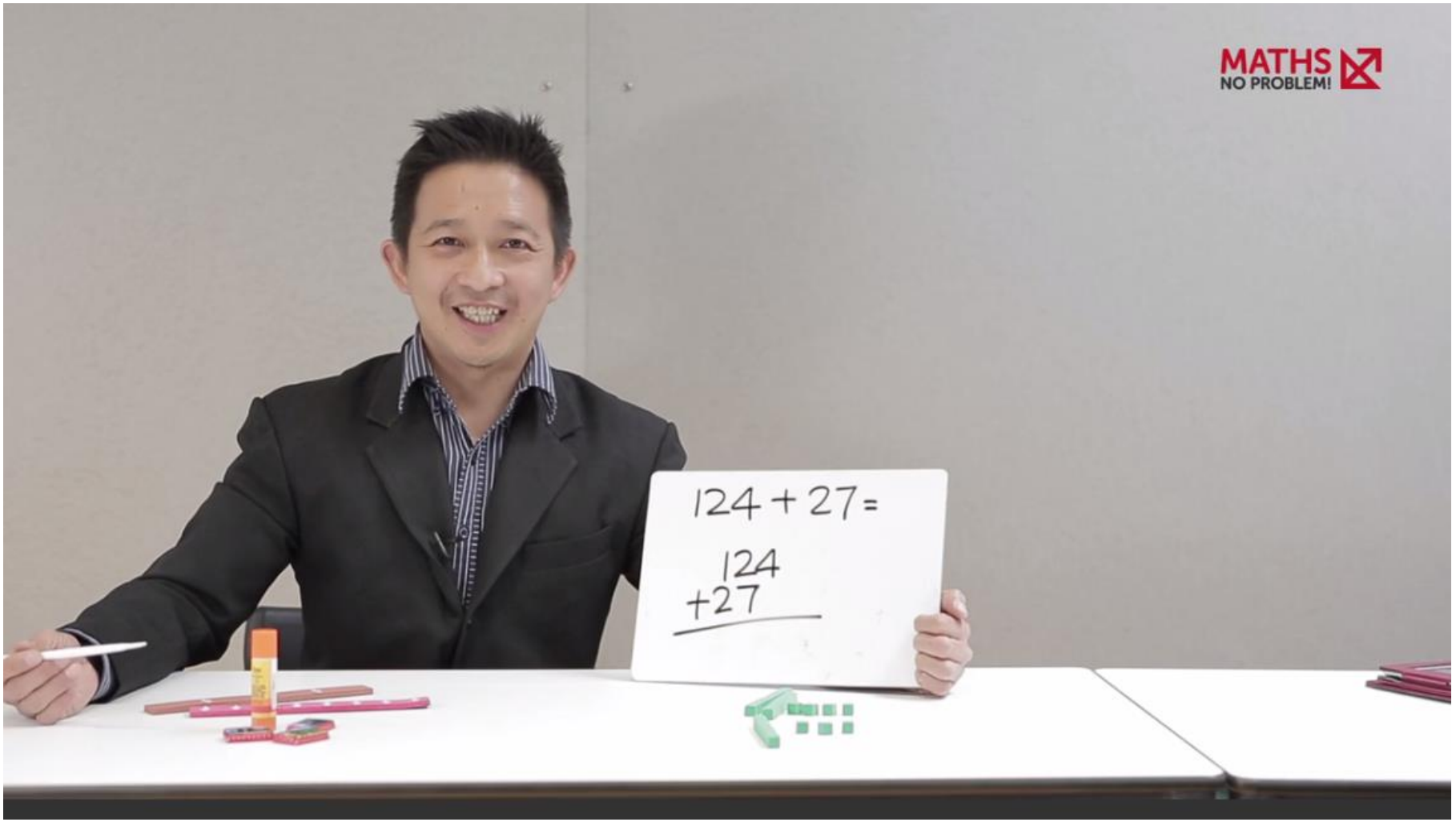

2
3
?

- Children attempting to use formal written methods without a secure understanding will try to remember rules, which may result in unnecessary and mistaken applications of a standard method.

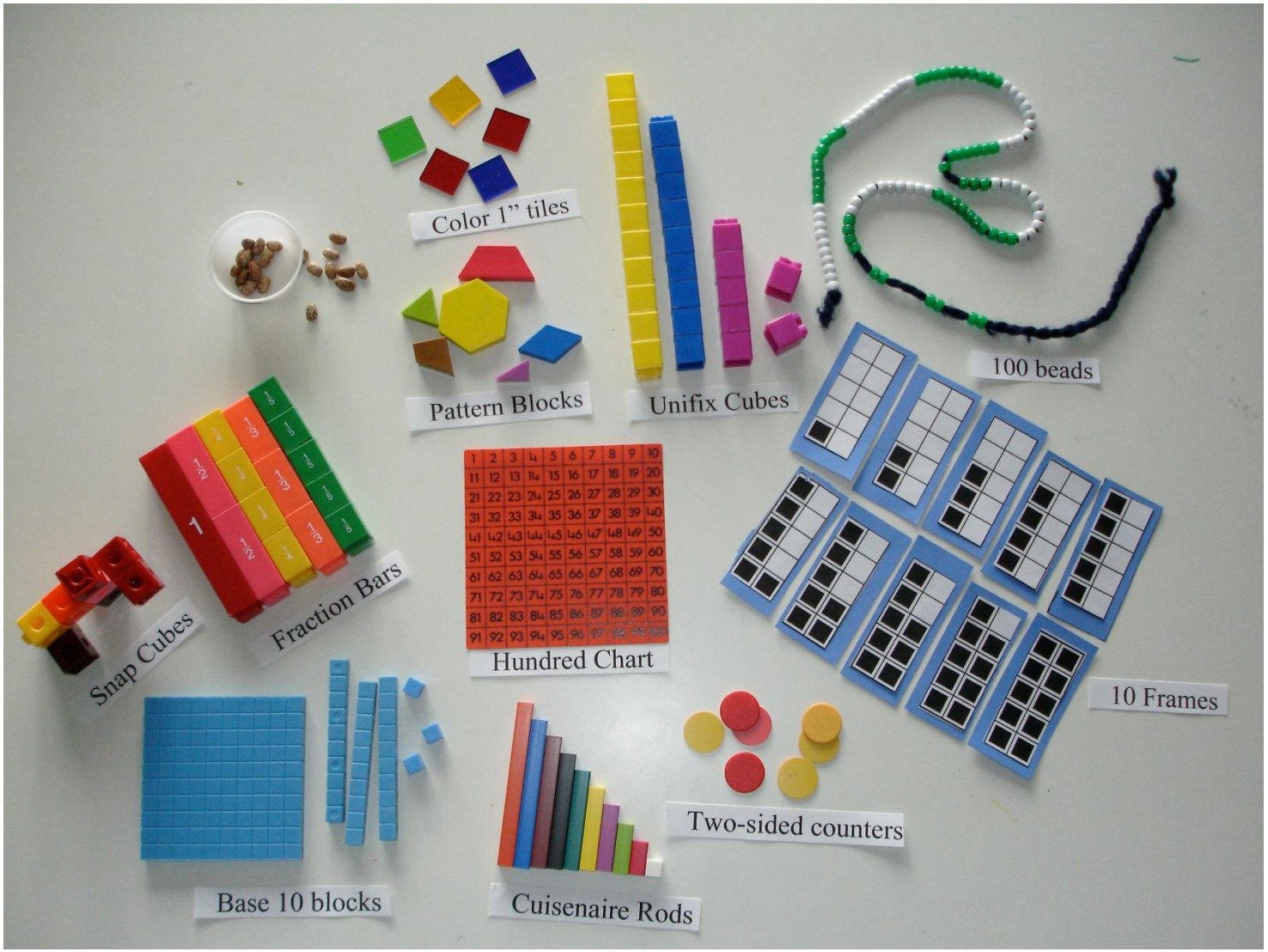
$$\begin{array}{r} 24 \\ +39 \\ \hline 513 \\ \hline \end{array}$$

?

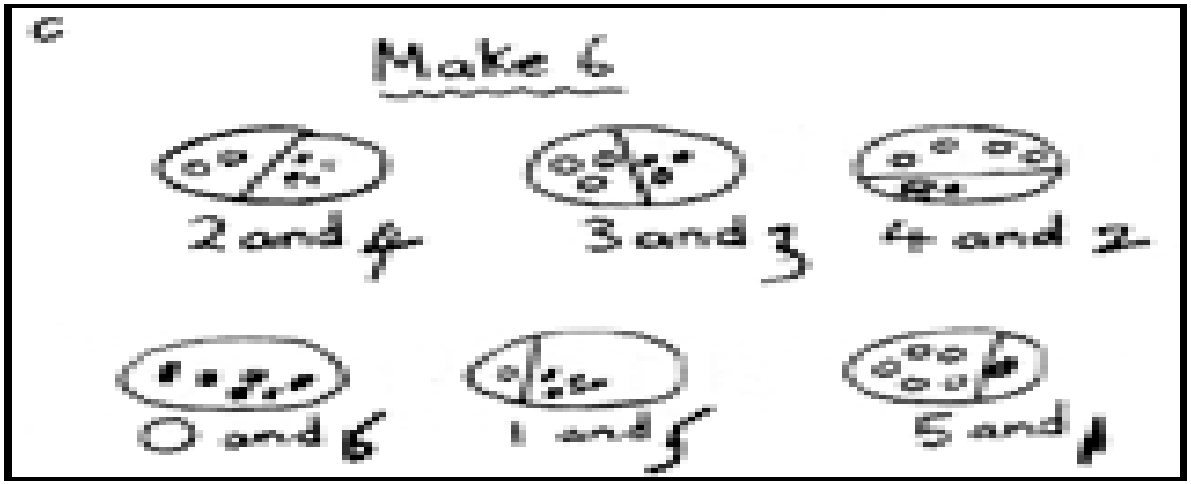
Parent Videos – Fundamentals in maths



EQUIPMENT WE USE



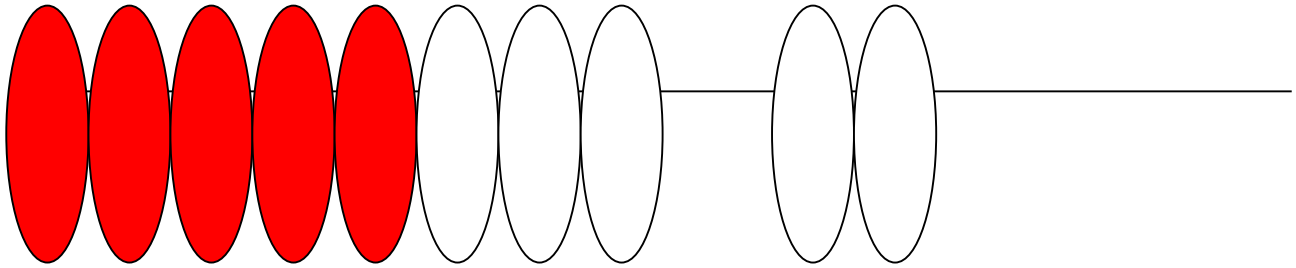
- Children are encouraged to develop a mental picture of the number system in their heads to use for calculation.
- They develop ways of recording calculations using pictures, etc.



Example

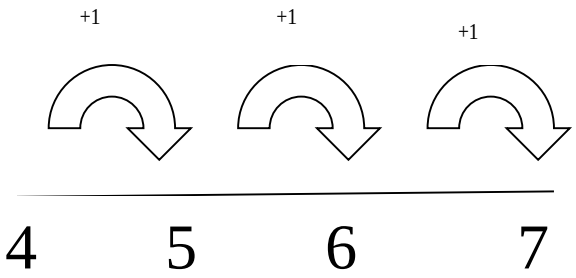
- Bead strings or bead bars can be used to illustrate addition

8+2=10



- Children then begin to use numbered lines to support their own calculations using a numbered line to count on in ones.

E.g. 4+3=7



CALCULATIONS IN CONTEXT

All the methods support children in using their mental and written skills to solve calculations.

Children need to be encouraged to use the method **that they understand and can use confidently**.

It is important that children are able to choose the most appropriate method for the calculation.

Using and applying appropriate skills is very important, when calculations are needed to solve a problem.

4 Books at £2.99 – how much altogether?

£2.99 is almost £3.00 and so round up, multiply, then adjust:

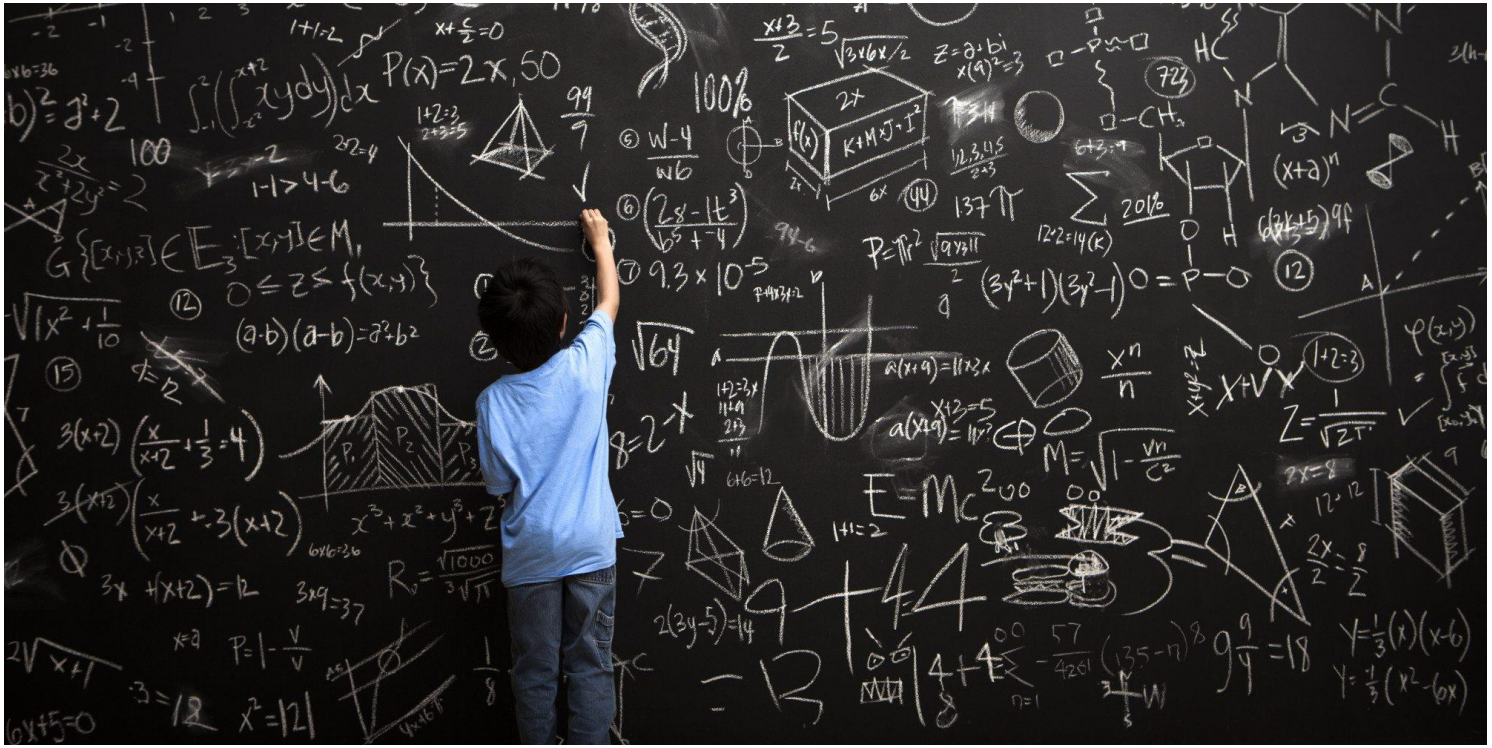
4 x £3.00 = £12.00

£12.00 – 4p = £11.96

Our Calculation Policies

- Calculation Policies for maths

  http://diptford.thelink.academy/policies/

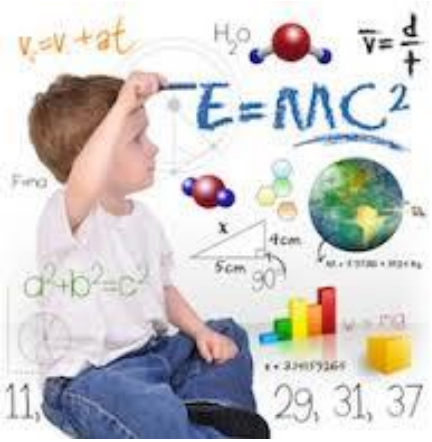


KS1 and KS2 SATs Tests

- **KS1 2017 to 2018**
- **KS2 2017 to 2018**

Ways to help your child at home

- Practise counting in 1s, 2s, 5s, 10s, other steps, forwards, backwards.
- Learn number bonds and bonds within them e.g. 4 + 5 =
- Support them in learning x and ÷ facts
- Learning doubles and halves facts
- Recognising odd and even numbers
- Read and write numbers using place value not just digits speech e.g. 4567
- Support your child in learning to tell the time
- Use maths at home with them, maths is fun!



Thank you!

It would be great to know what you would like to know more about in relation to primary maths, so I can tailor parental workshops to your wants and needs.

*Please make a note on a post it note for me

If you have any questions then please come and see me or ask your class teacher.