



Maths

Addition and Subtraction

(KS2)

Wednesday 1st February 2017



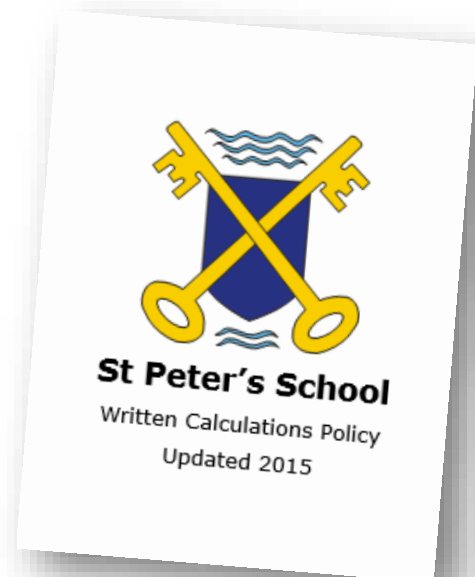
Warm up

Taboo



Aims

- To get an insight into how Maths is taught at St Peter's.
- To become more familiar with the methods used to teach calculations.
- To take away some ideas to support your child at home.



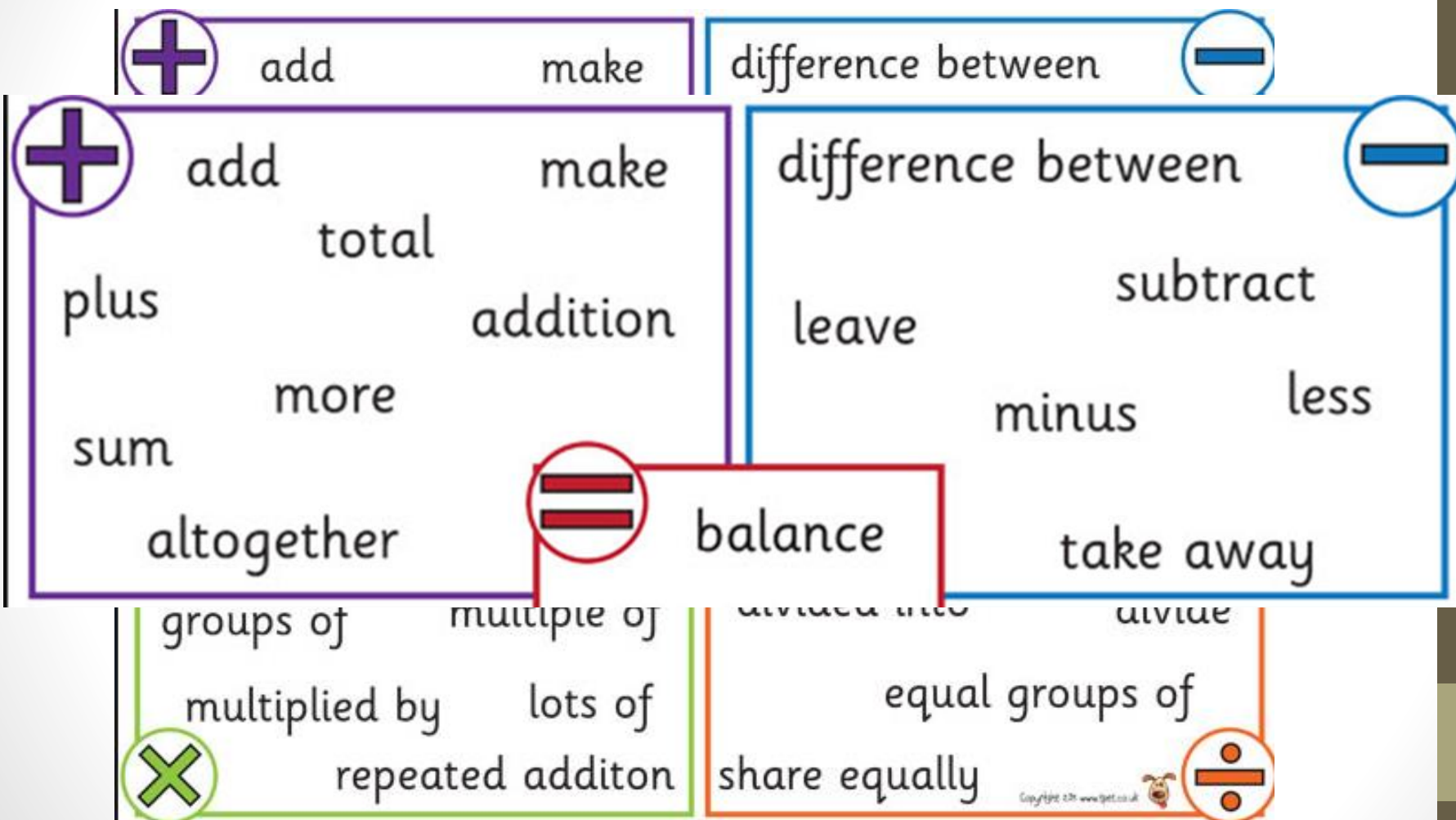
National Curriculum

Children should:

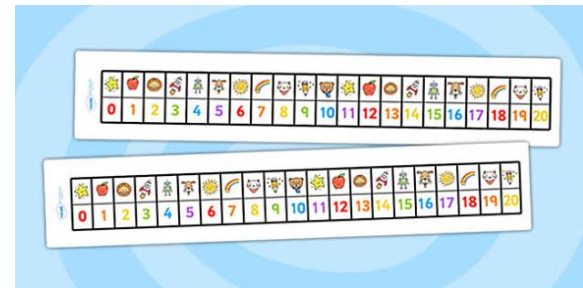
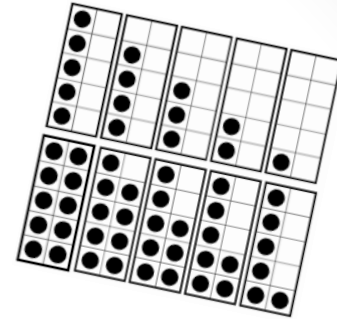
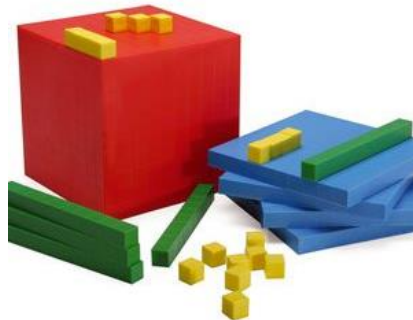
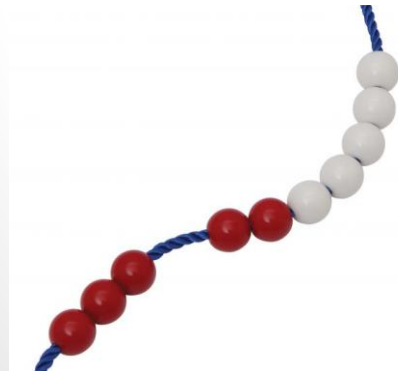
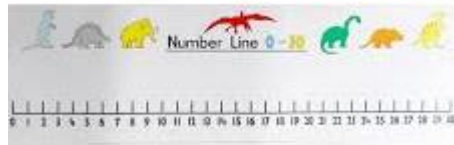
- Become **fluent** in the fundamentals of mathematics, including through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately.
- **Reason mathematically** by following a line of enquiry, conjecturing relationships and generalisations and developing an argument, justification or proof using mathematical language.
- **Solve problems** by applying their mathematics to a variety of problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.



Addition and Subtraction



Concrete apparatus



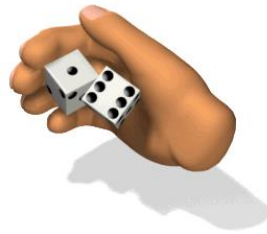
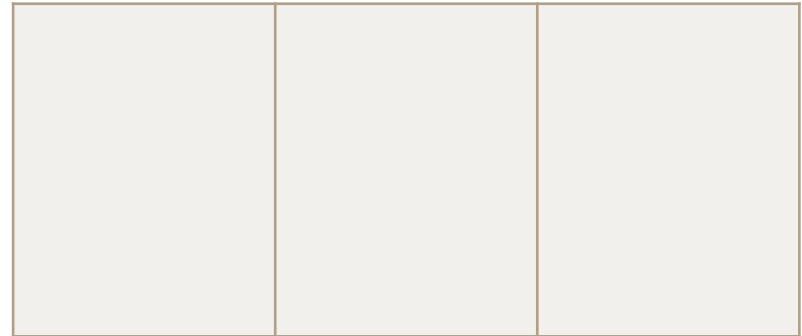
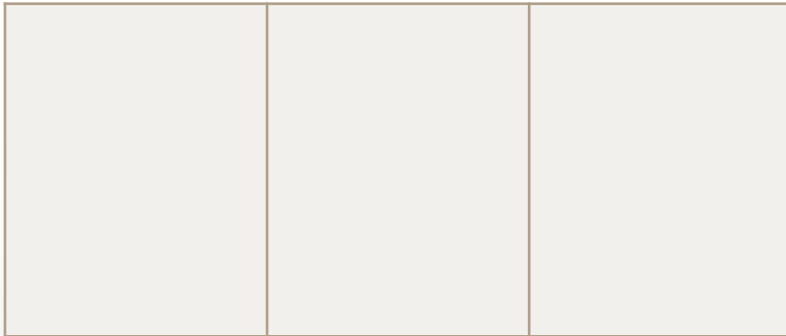
Progression

- Number sense
- Recalling Facts
- Place Value
 - Place value is at the heart of the number system. All digits have a value and a secure understanding of this will enable children to use and understand different calculation methods
- <http://www.stpeters.herts.sch.uk/maths-1/>



Place Value

- Nasty or Nice

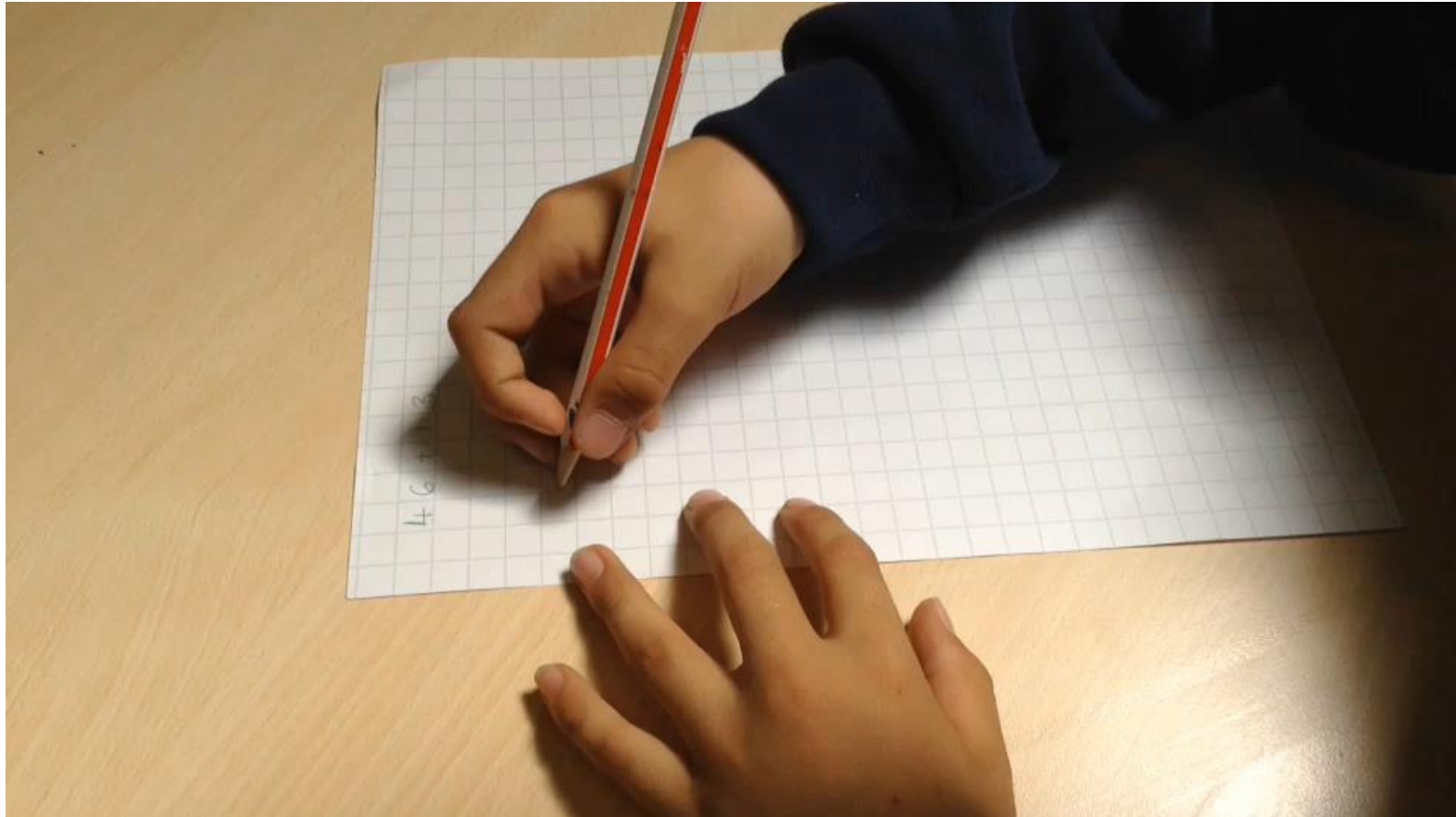


How would you solve this?

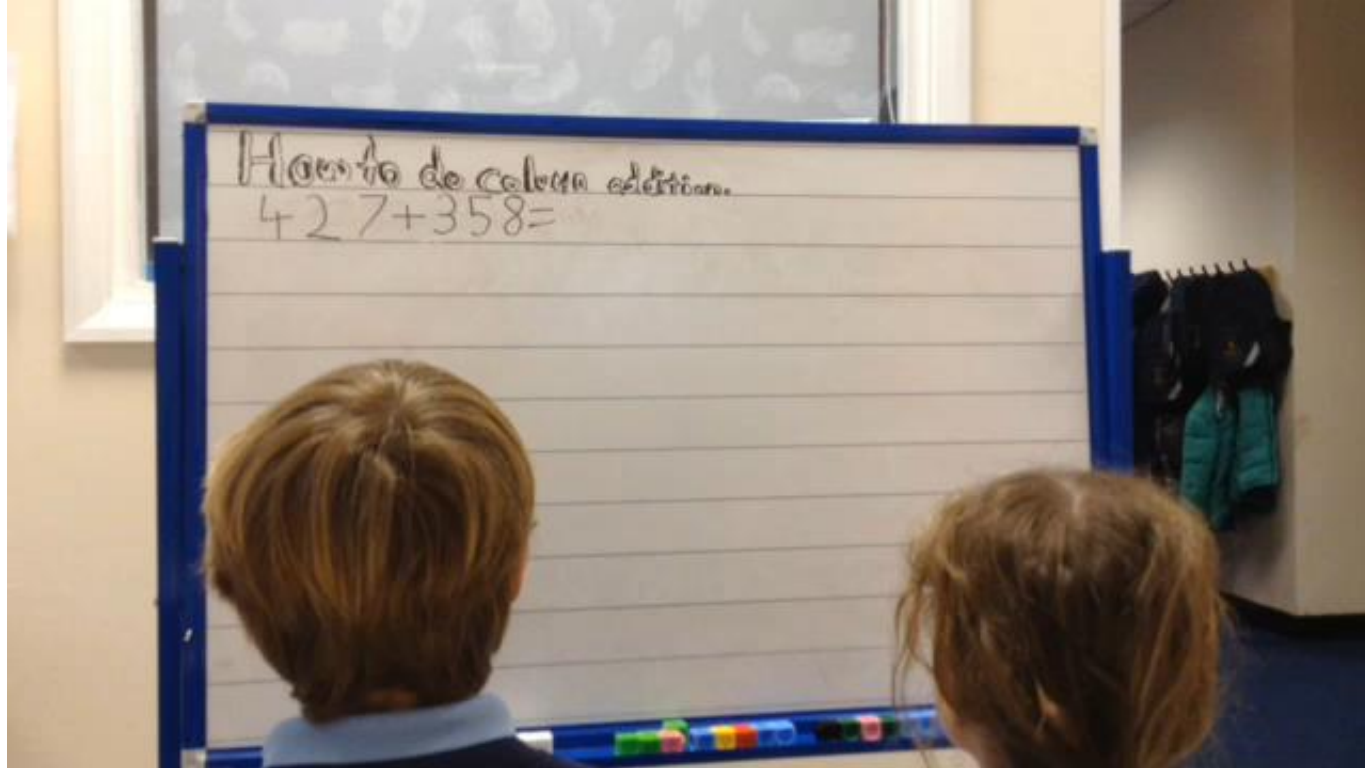
$$427 + 358 =$$



Expanded Method



Column addition and subtraction

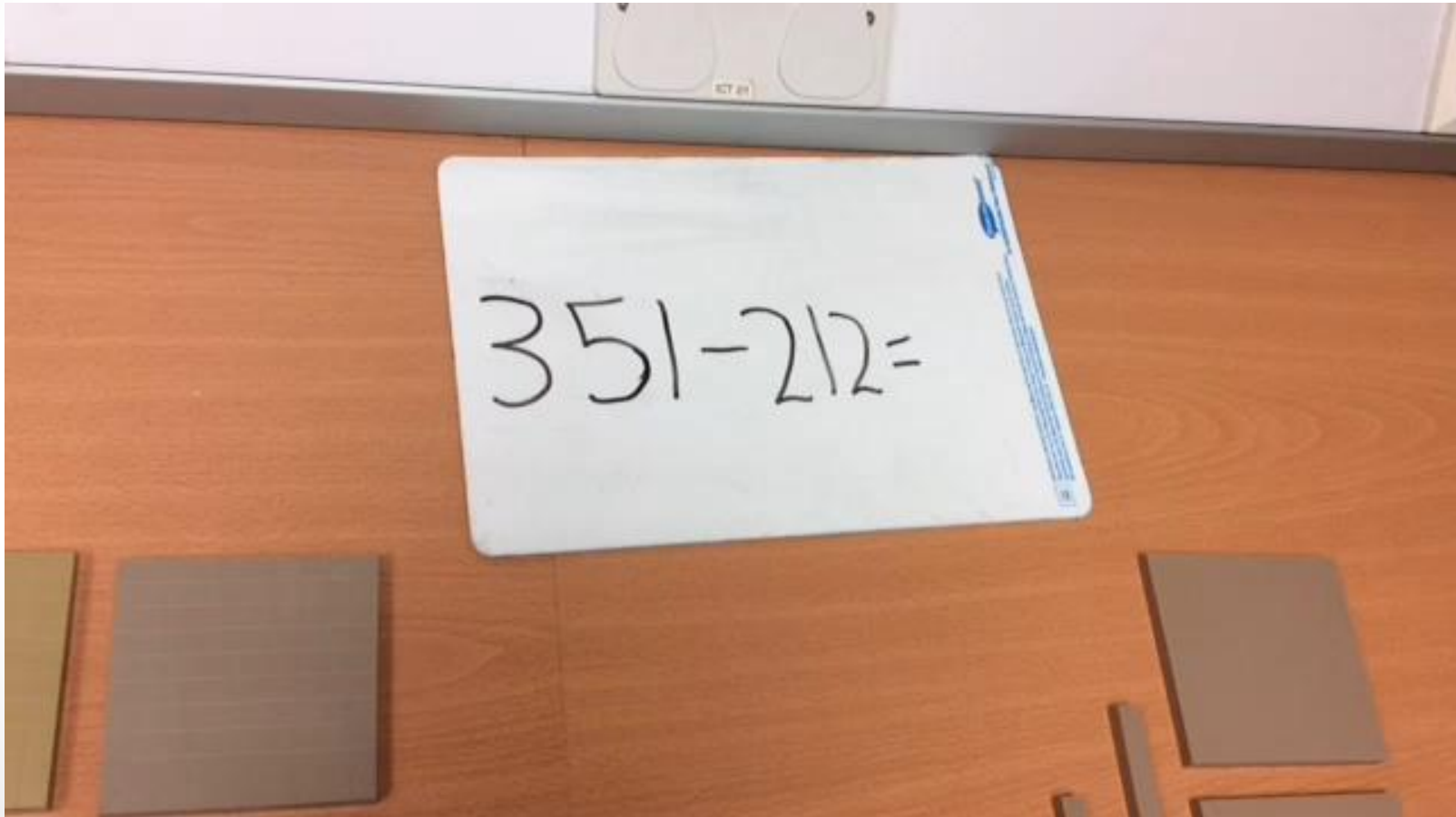


How would you solve this?

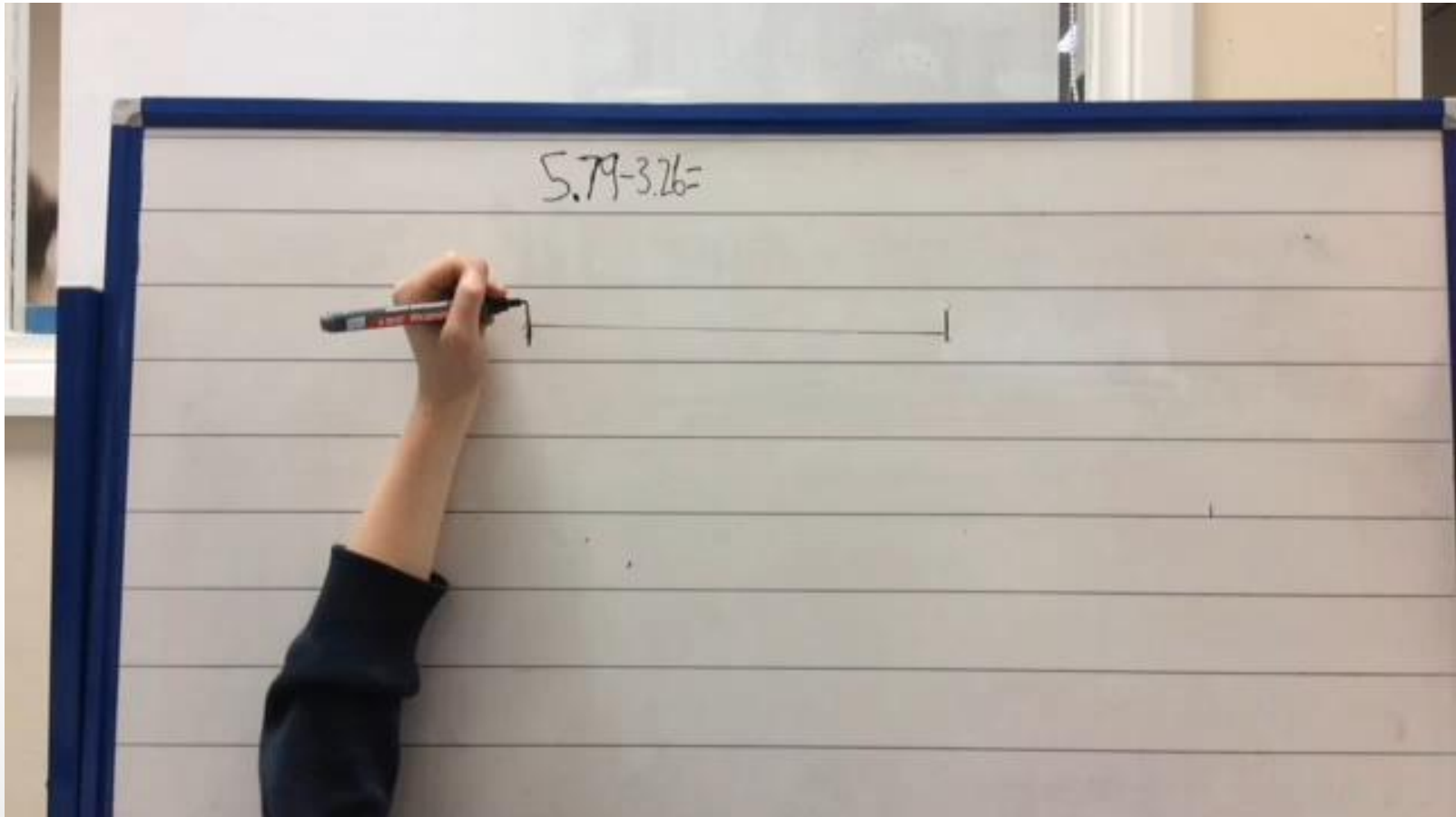
$$73 - 26 =$$



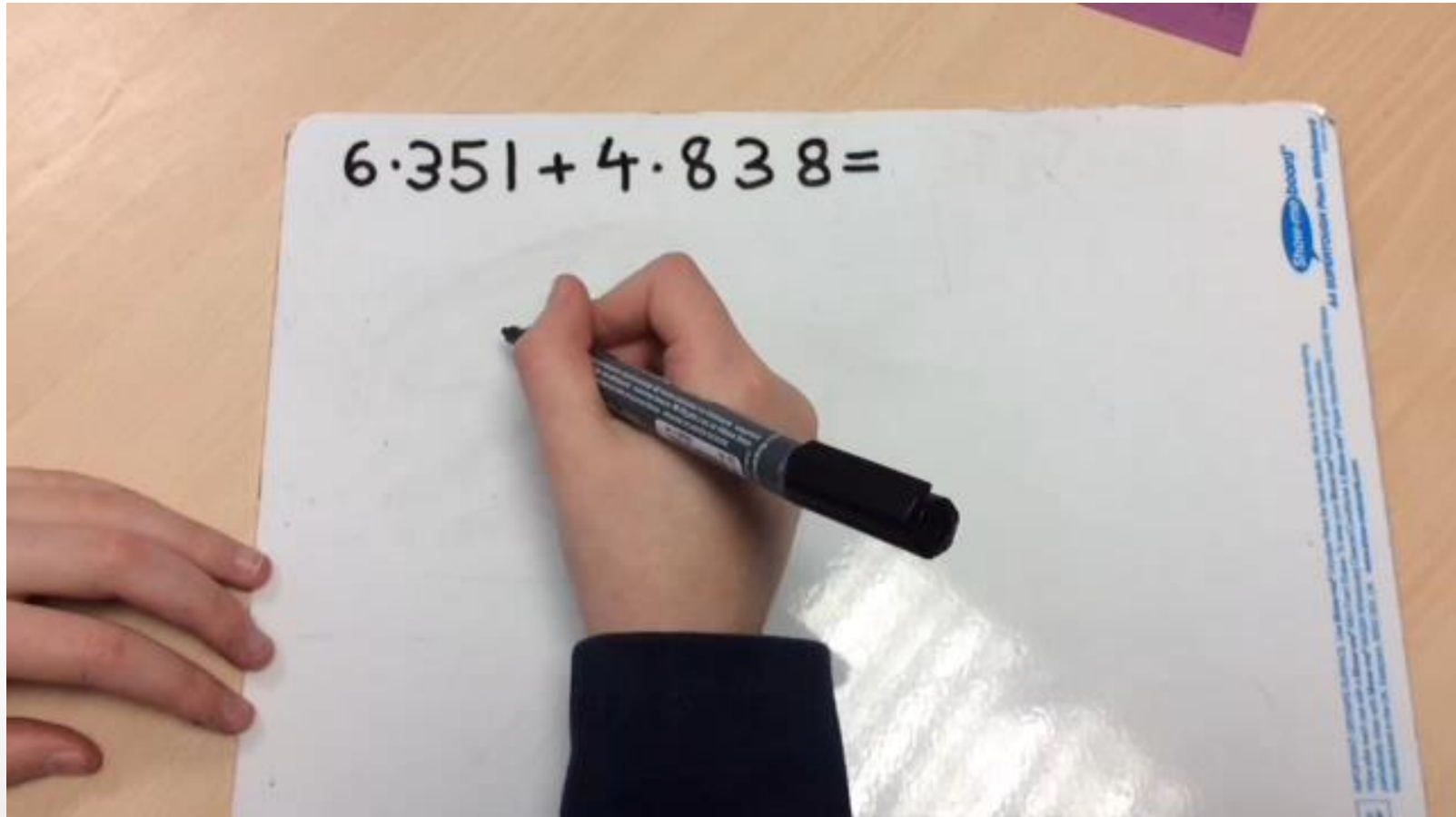
Using practical apparatus



Subtraction using a number line

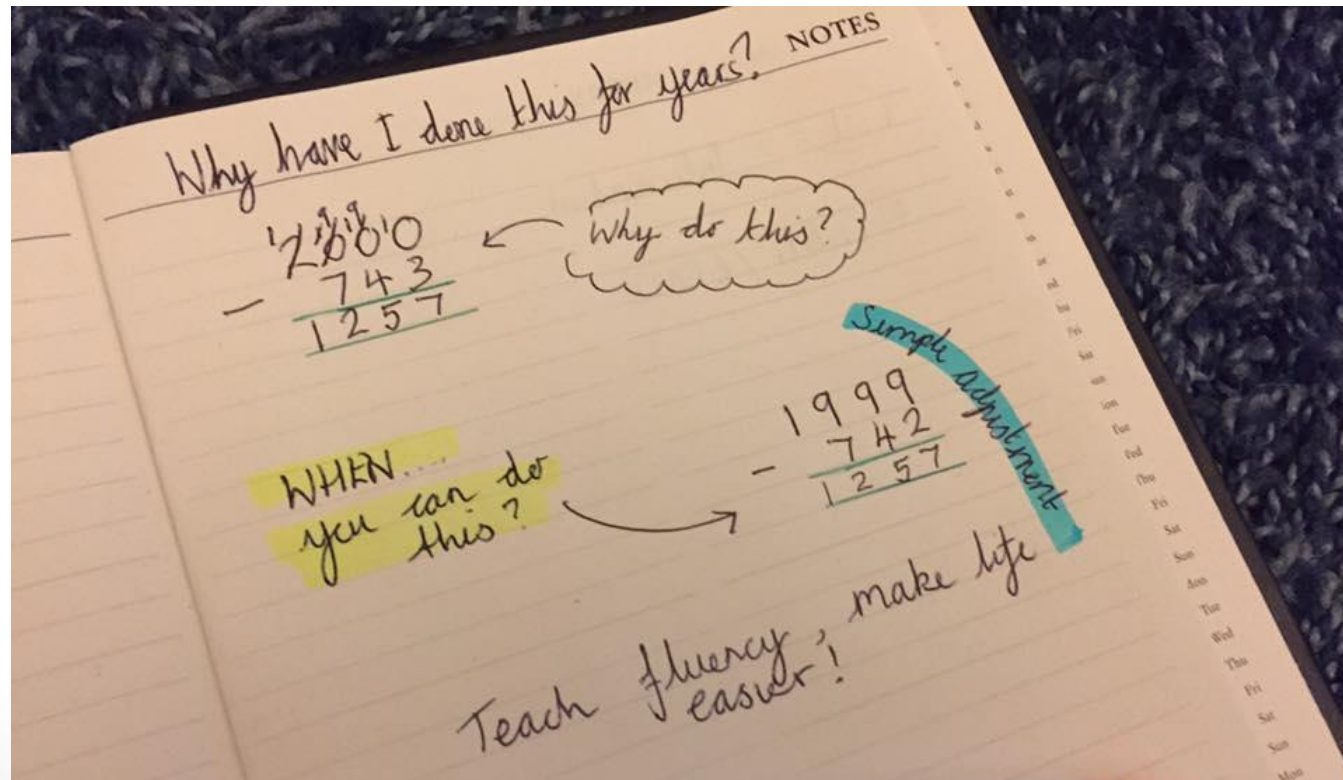


Decimals



Subtraction – What about this?

$$2000 - 743 =$$



What next?

Which is larger amount of money 239p or £2.39?

239 is bigger
because it has
got hundreds in



£2.39 because it
has whole
pounds in and
the other just
has pence

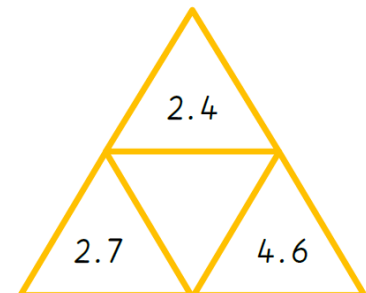
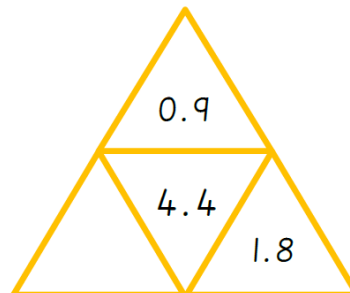


they are both
the same



Adding and Subtracting Decimals

Complete the missing boxes, using decimal numbers only, so that the outside triangles total the value in the centre triangle.



Maths at home



- **A dartboard with velcro darts-** Helps with doubling, trebling, adding and subtracting.



Resources for support

- Existing school publications (website)
- <https://www.oxfordowl.co.uk/for-home/maths-owl/maths>
- Variety of picture books
- www.topmarks.co.uk
- <http://www.transum.org/iPad/Maths.asp>



Questions & discussion

Thank you

