Year 2 Mathematics Workshop 2019

Aims of the workshop

- To give an overview of how Mathematics is taught and the methods used in Year 2
- To give ideas on how to support your child at home in mathematics

Mathematics Today

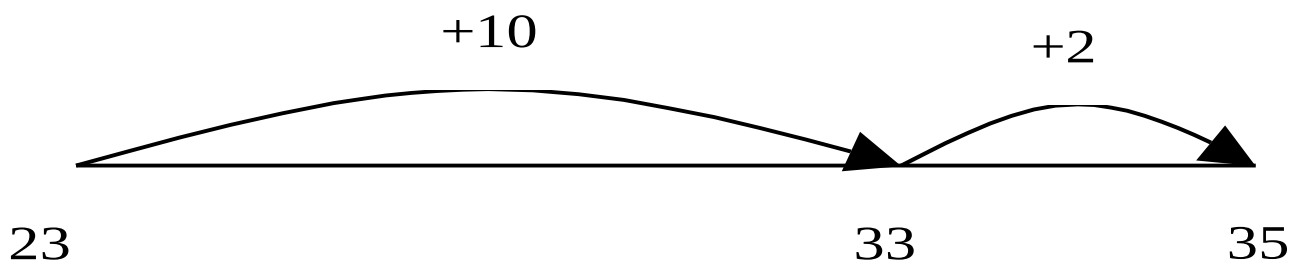
- Building blocks essential
- Using a range of progressive methods to suit children's needs
- Encouraging children to explain their methods and develop their understanding (reasoning)

How is mathematics taught in the infants?

- Mixture of mental, practical and informal written work
- Whole class learning with guided independent working
- Daily mental activities to embed counting, number facts and use of operations.
- Variety of learning/teaching styles
- Wide use of resources: counting stick, cubes, fingers, hundred squares
- Problem solving

Year 2 Addition

- **Number lines** **23 + 12**



Year 2 Addition

- **Expanded column addition**

$$23 + 12 =$$

$$\begin{array}{r} 20 + 3 \\ +\ \underline{10 + 2} \\ 30 + 5 = 35 \end{array}$$

Year 2 Addition

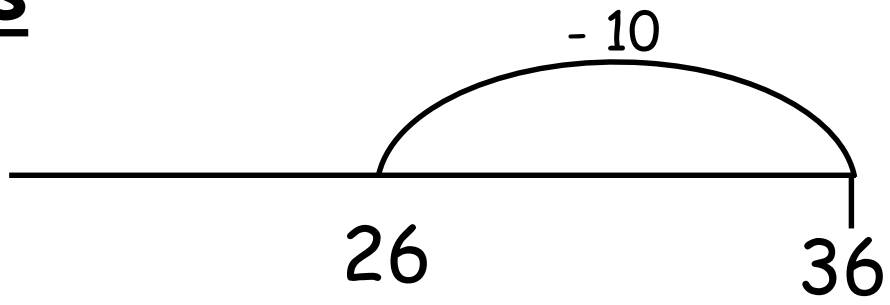
Try using the number line and expanded column addition methods:

56 + 32 =

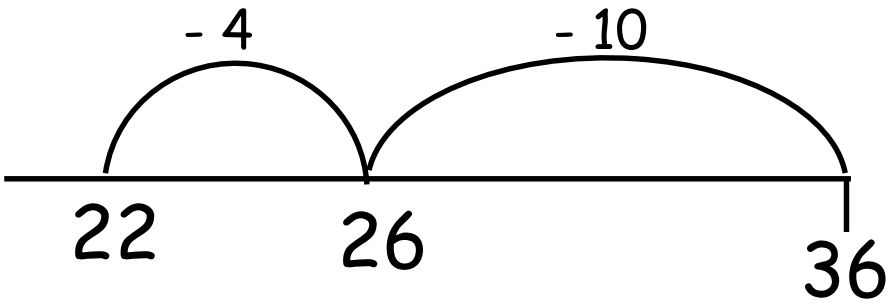
Year 2 Subtraction

- **Number lines**

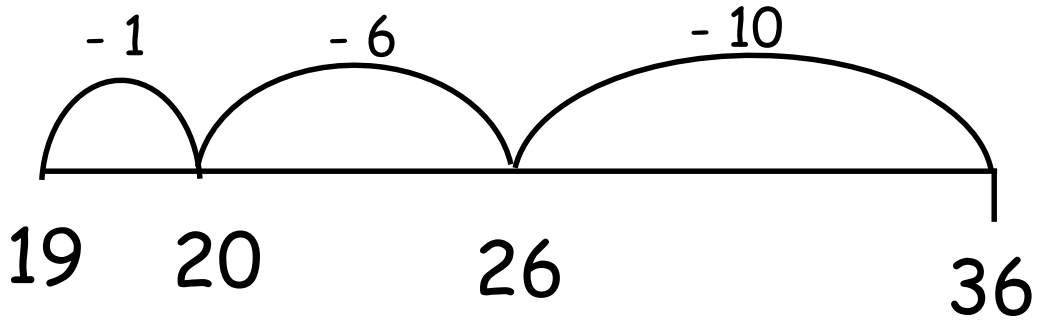
36 – 10 = 26



36 – 14 = 22



36 – 17 = 19



Year 2 Subtraction

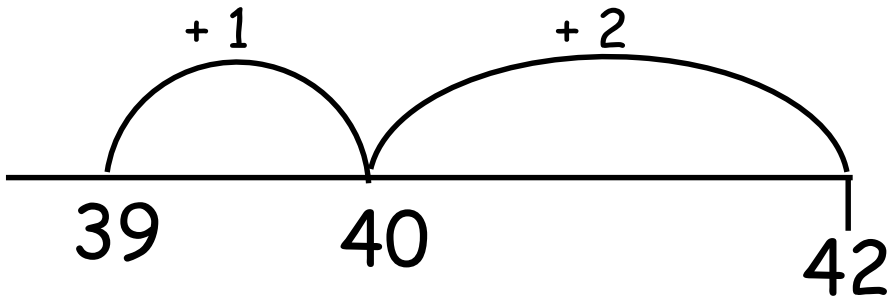
Try using the number line method:

85 - 37 =

Year 2 Subtraction

- **Finding the difference**

42 – 39 = 3



Year 2 Subtraction

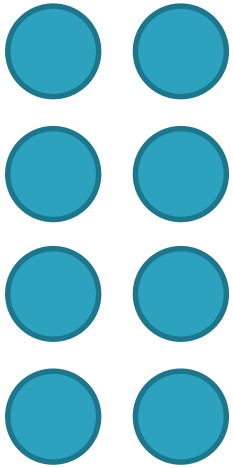
Try finding the difference:

65 - 57 =

Year 2 Multiplication

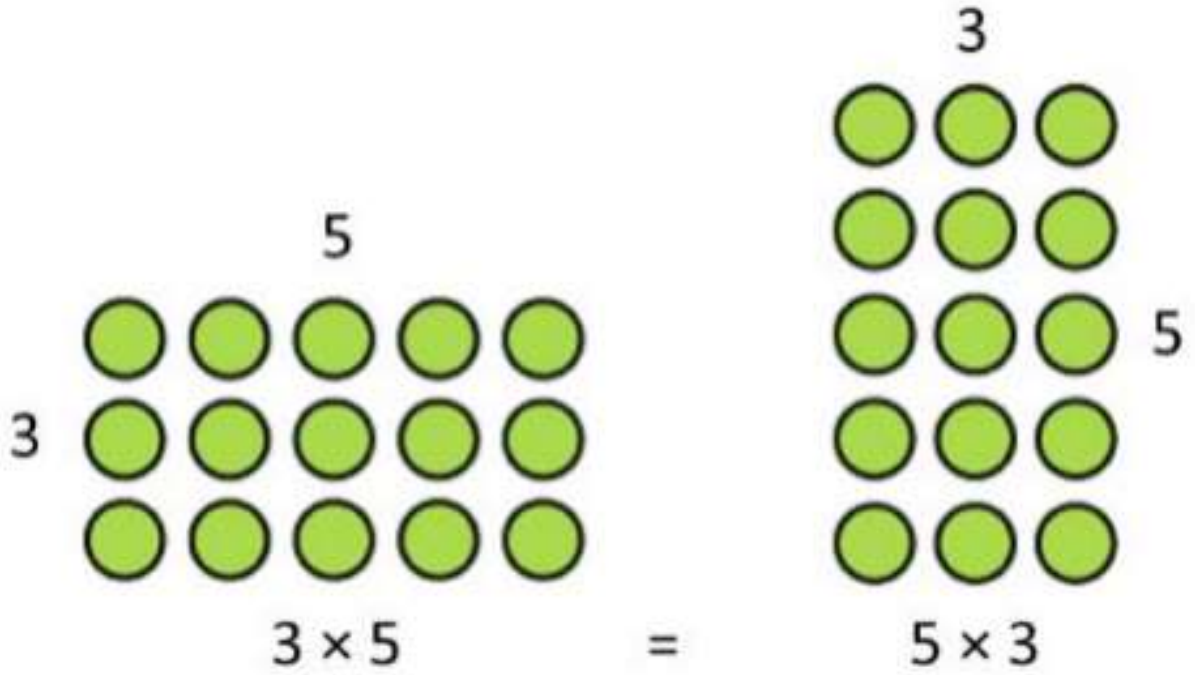
4 x 2 =

- **Repeated Addition** 2 + 2 + 2 + 2 =
- **Arrays**



Year 2 Multiplication

Commutativity



Year 2 Multiplication

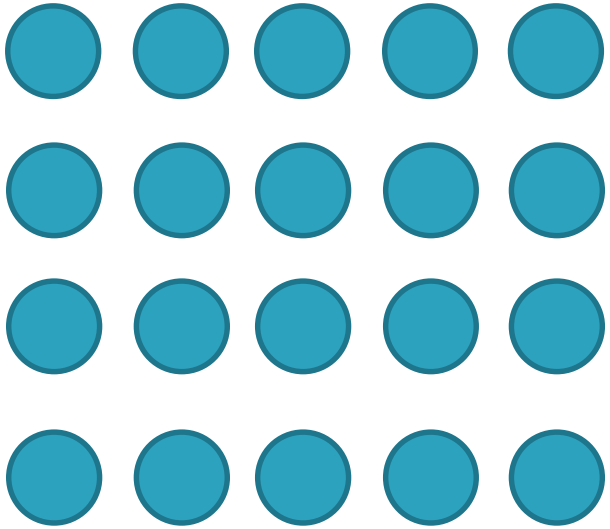
Try drawing an array to show:

4 x 5 =

Year 2 Multiplication

Draw an array to show

4 x 5 =



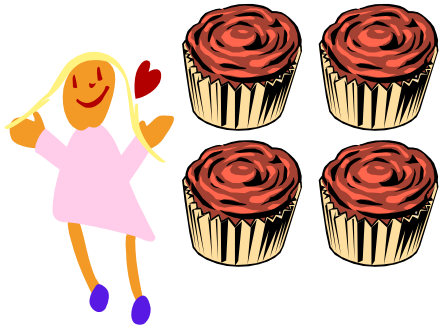
Year 2 Division

12 ÷ 3 = 4

- **Sharing**

There are three children and 12 cakes. How many can they each have, if I share them out equally?

(Sharing 12 things equally into 3 piles. How many in each?)



Year 2 Division

Try using the sharing method to find 15 ÷ 3:

Year 2 Division

12 ÷ 3 = 4

- **Grouping**

There are 12 cakes. How many children can have three each?

(How many threes are there in 12?)

Year 2 Division

Try using the grouping method to find 20 ÷ 4:

How can you help your child with Year 2 mathematics?

- Learn number bonds to 20 and 100
- Learn multiplication facts for 10, 2 and 5 times tables (order)
- Count forwards and backwards in 2s, 5, 10s (and backwards)
- Add and subtract numbers mentally
- Use calculation methods for four operations
- Telling the time on an analogue clock
- Doubling and halving
- Using money and counting in coins
- Fractions - cakes and pizza!

How can you help?

Learn number facts

Use a timer

Talk about *how* you do maths

Play games

Everyday maths

Give praise and encouragement

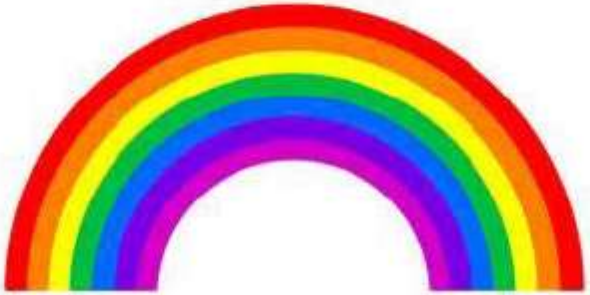
Ask your child to explain

Make sure maths is fun!

Rainbow level: Red

Your times table targets are:

- Step 1: knowing the 10 x table off by heart
- Step 2: knowing the 10 x table out of order



Rainbow level: Orange

Your times table targets are:

- Step 1: knowing the 5 and 2 x tables off by heart
- Step 2: knowing the 5 and 2 x tables out of order
  (Keep practising your 10 x table as well!)

Rainbow level: Yellow

Your times table targets are:

- Step 1: knowing the division facts for the 10, 5 and 2 x tables off by heart

(Keep practising your 10, 5 and 2 x tables as well!)