



Maths Parent Workshop

By Mrs Gerrald

How we teach maths at Highwood

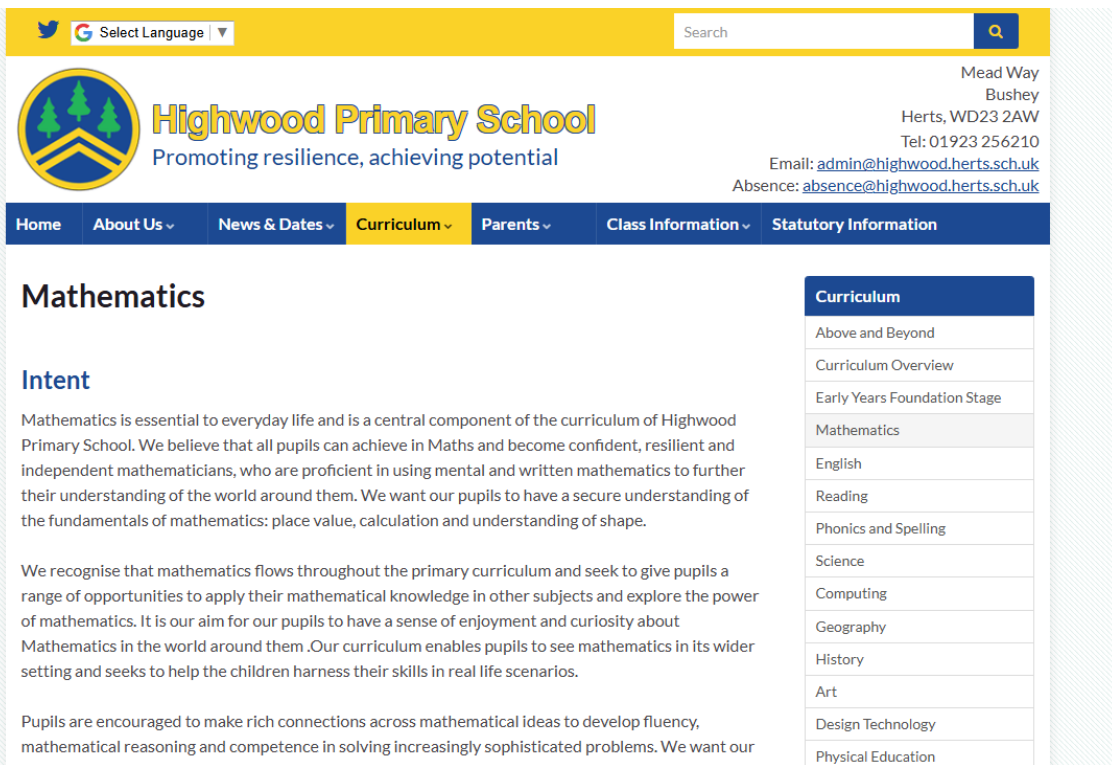
- Everyone can succeed at maths
- **Whole class**
- We use a maths mastery approach
- Carefully designed lessons with **small steps of learning**
- Difficult points and **misconceptions addressed - making mistakes**
- **Precise vocabulary and stem sentences**
- Variation in **representations and images**
- **Tables and addition facts learnt for automaticity**
- **We use CPA (concrete, pictorial and abstract)**

... becoming
mathematically
observant...

Deep sustainable learning for all

Calculation policy

- ▶ Our calculation policy is available on the website. It explains all written methods for each year group that is used.



The screenshot shows the Highwood Primary School website. The header includes a search bar, social media icons, and a language selector. The main navigation menu has links for Home, About Us, News & Dates, Curriculum, Parents, Class Information, and Statutory Information. The 'Curriculum' page is active, displaying a sidebar menu with categories like 'Above and Beyond', 'Curriculum Overview', 'Early Years Foundation Stage', 'Mathematics', 'English', 'Reading', 'Phonics and Spelling', 'Science', 'Computing', 'Geography', 'History', 'Art', 'Design Technology', and 'Physical Education'. The main content area is titled 'Mathematics' and includes an 'Intent' section with text about the school's approach to mathematics.

At the end of each unit pupils will:

- Be able to strengthen their maths fluency of the four operations.
- Be able to answer more complex word problems and rich reasoning questions.



After each unit teachers will:

- Assess which pupils have met the Learning Objectives and note which pupils need further consolidation.
- Revise plans to assess the current needs of the children.

Throughout the year, teachers will also:

- Use daily fluency sessions to consolidate prior learning. Key areas covered may include vocabulary, place value and the 4 operations.
- Use maths interventions to support needs of pupils.
- "Times Table Rockstars" is used as homework to help support pupils' rapid recall of times tables.

Please see the documents below to inform yourselves about the different methods taught at Highwood.

-  [Key Stage 1 Written Methods](#) (1.50MB)
-  [Key Stage 2 Written Methods](#) (1.53MB)

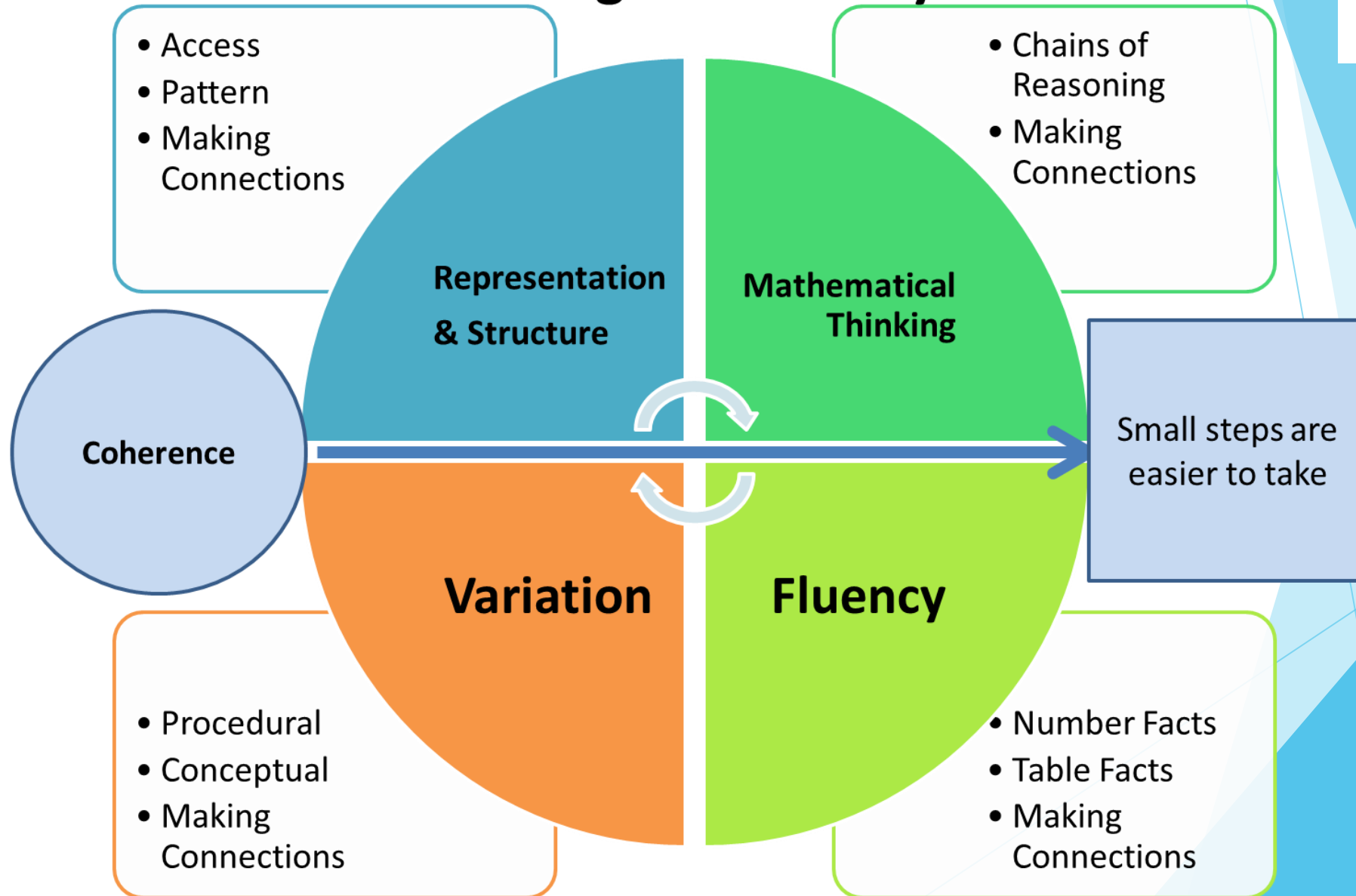
What is Maths Mastery?

- Approach to maths teaching that has originated from Asian nations such as Singapore.
- It is designed to help children develop a **deep, long-term** and **adaptable** understanding of maths.
- Lessons are taught using an **inclusive approach** where **all children achieve**.
- **Slower pace** which results in **greater progress**.
- Differentiation occurs through **depth** rather than acceleration.

Five Big Ideas



Teaching for Mastery



Year 1



Year 2



Session 1
 I.O. to practise coin recognition and recall their values. W. b. 27.01.25
 I can recognise the value of each coin.
 I can draw the coin value using rods and ones.
 I can use p (pence) and £ (pounds) symbols correctly.

① T TA VF

□	□				○○○○	○○		○
£2	£1	50p	20p	10p	5p	2p	1p	

✓ Well done

① T TA VF

10p + 0 = 10p ✓

1p + 1p = 2p ✓

1p + 1p + 1p + 1p = 4p ✓

1p + 1p + 1p + 1p + 1p = 5p ✓

1p + 1p + 1p + 1p + 1p + 1p = 6p ✓

1p + 1p + 1p + 1p + 1p + 1p + 1p = 7p ✓

1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p = 8p ✓

1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p = 9p ✓

1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p + 1p = 10p ✓

I.O. to find change from £1. W. b. 10.02.25
 I can choose one item and subtract the price from £1.
 I can use my knowledge of written subtraction.
 I can remember to exchange - where needed.

① T TA VF

10p	-	7p	=	3p
90	and	30	is	93

10p	-	1p	=	9p
10	and	10	is	11

10p	-	26p	=	74p
20	and	60	is	26

Session 2 W. b. 27.01.25
 I.O. to add coin values together.
 I can order the coins from biggest value to smallest.
 I can draw the values of the coins using rods and ones.
 I can total the values of the coins.

① T TA VF

£1.00 ✓

73p ✓

38p ✓

13p ✓

£1.57 ✓

Great work!

Year 6



Challenge 1: Look at the grid and part-part-whole models below. Use information from each to fill in the blanks and calculate the answers.

1

$$\begin{array}{r} 3 \overline{) 1092} \\ \underline{9} \\ 19 \\ \underline{18} \\ 12 \\ \underline{12} \\ 0 \end{array} \quad \checkmark$$

$$\begin{array}{r} 6 \overline{) 5454} \\ \underline{36} \\ 18 \\ \underline{18} \\ 0 \end{array} \quad \checkmark$$

2

$$\begin{array}{r} 1214 \\ \times 2 \\ \hline 2428 \end{array} \quad \checkmark$$

35×12

43×17

15×26

35×12

$$35 \times 10 = 350 \quad 35 \times 2 = 70$$

$$350 + 70 = 420$$

Tens	Ones	Tenths	Hundredths	Thousandths
	1	0.1 0.1	0.01	0.001 0.001
	1	0.1 0.1	0.01	0.001 0.001
	1	0.1 0.1	0.01	0.001 0.001

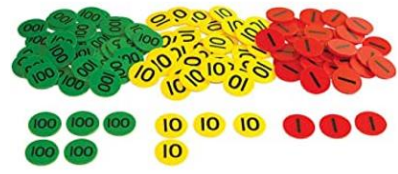
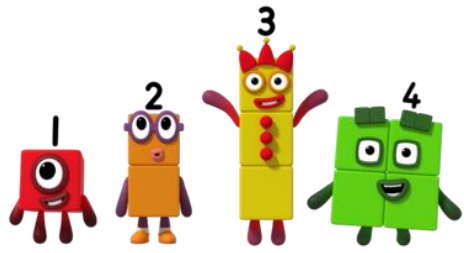
23.1.25
10 to revise short multiplication

- $2 \times 2 = 4$ ✓
- $3 \times 4 = 12$ ✓
- $1 \times 6 = 6$ ✓

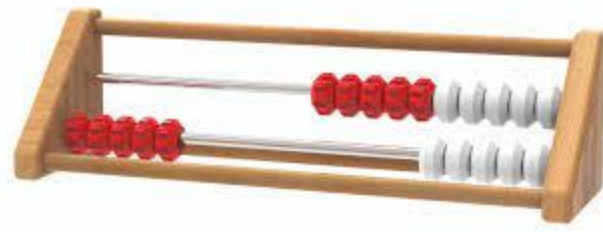
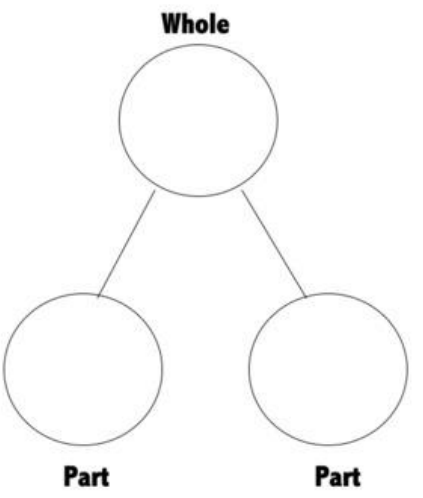
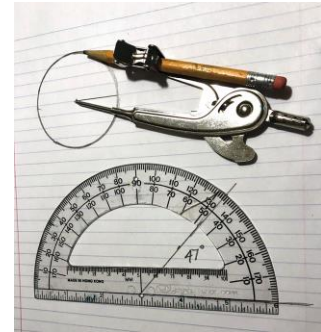
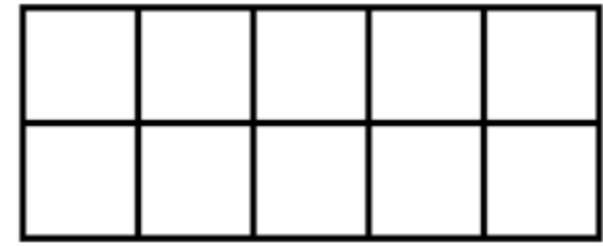
$25.65 \times 5 = 128.25$

$$\begin{array}{r} 25.65 \\ \times 5 \\ \hline 128.25 \end{array} \quad \checkmark$$

Resources used at school



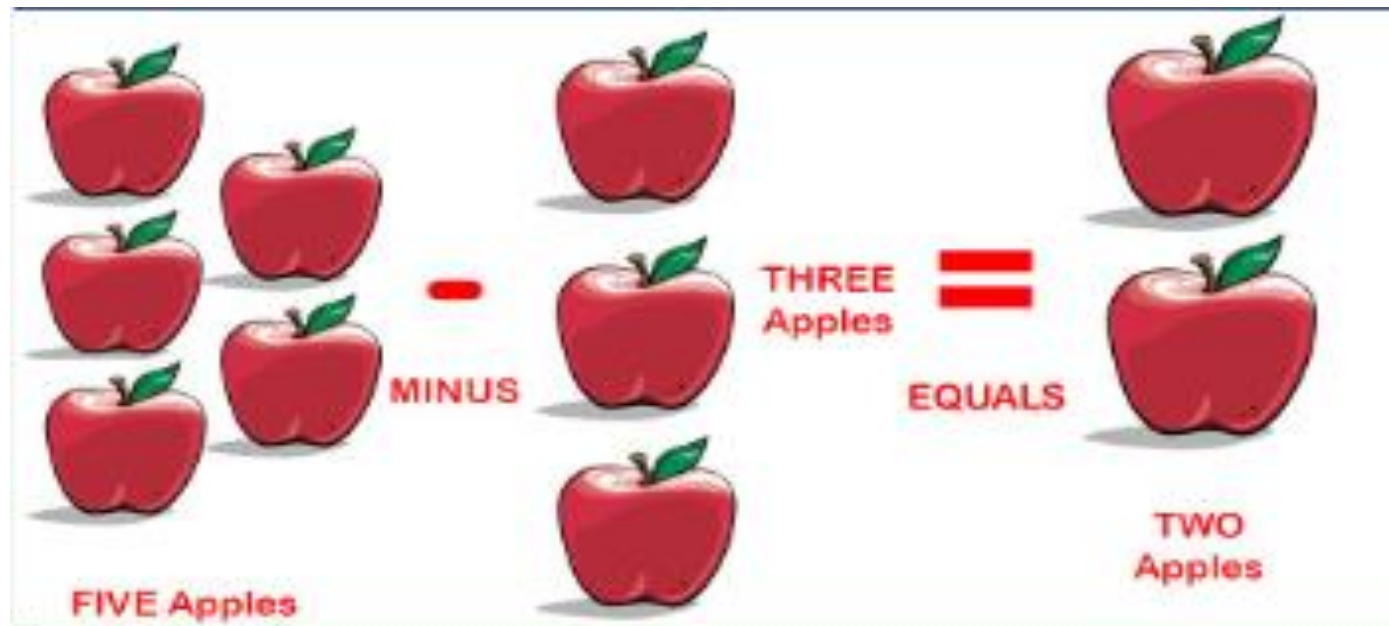
place value counters



Vocabulary-

$$5 - 3 = 2$$

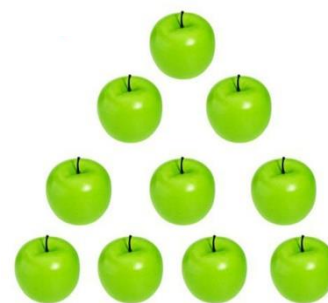
Minuend - subtrahend = difference



Vocabulary

$$5 + 5 = 10$$

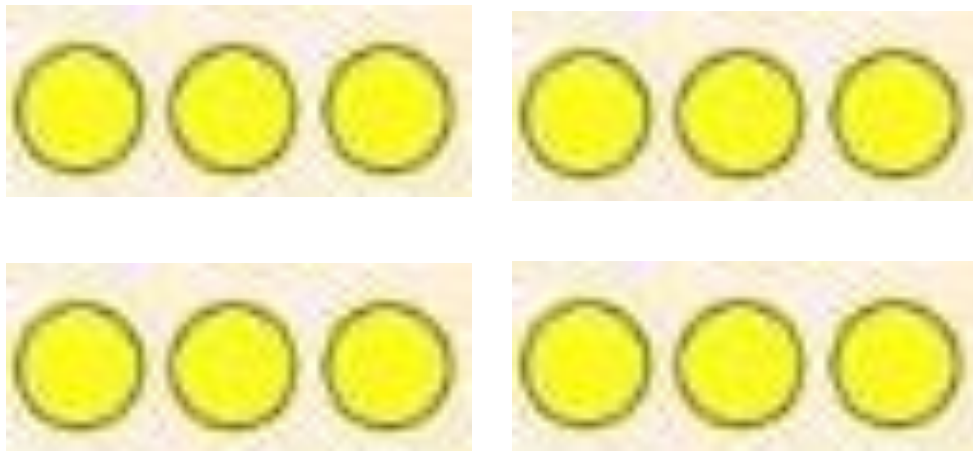
Addend + Addend = total / sum



Vocabulary

$$4 \times 3 = 12$$

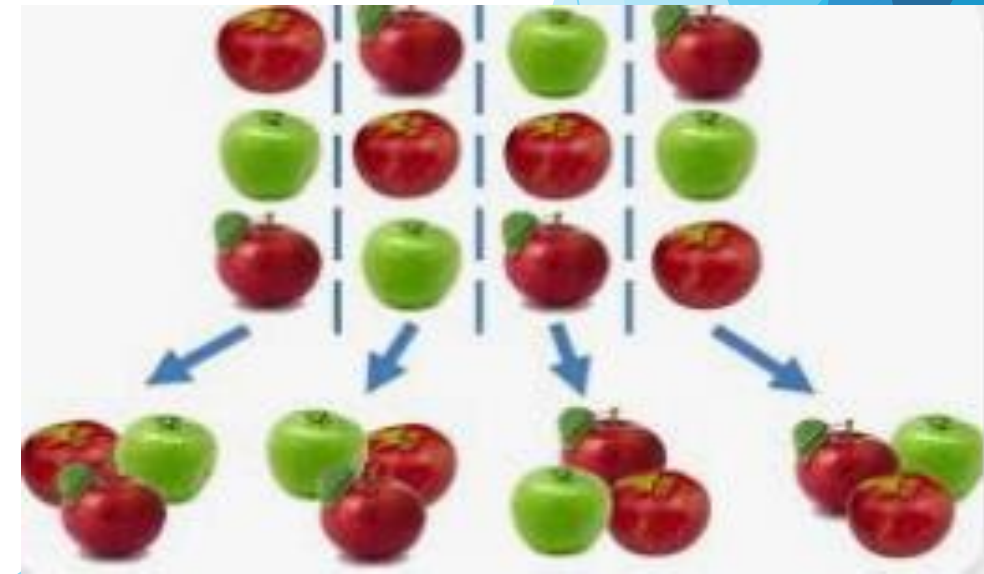
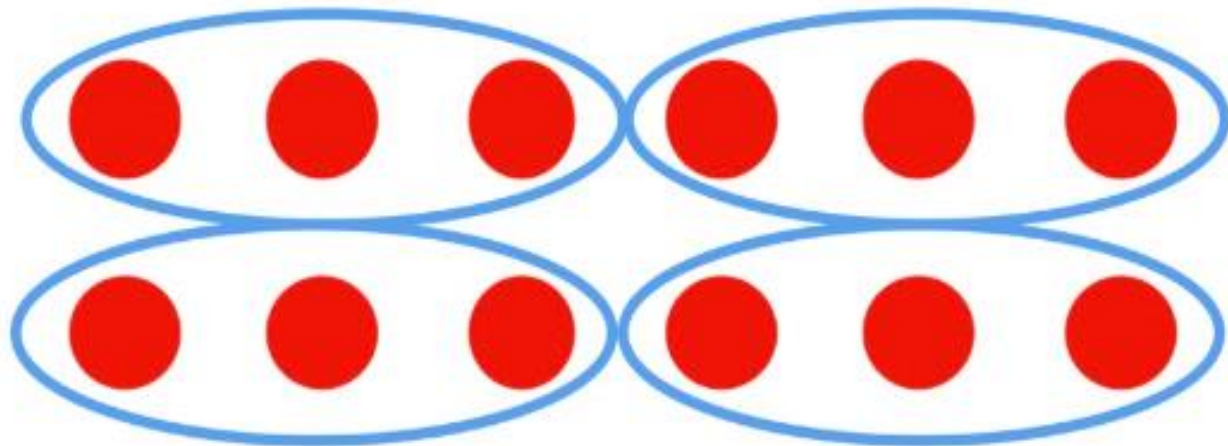
Factor X Factor = Product



Vocabulary

$$12 \div 4 = 3$$

Dividend \div Divisor = Quotient



How to support your child at home

- ▶ Activities such as baking (measuring)
- ▶ TTRS
- ▶ Reading numbers in the environment
- ▶ Shopping
- ▶ Encourage your child to talk to you about what they are learning / doing in maths
- ▶ Ask them to show you how to use the models and images they are using in the classroom
- ▶ Have a positive mind set

Games to play

- ▶ Snakes and Ladders or any board games
- ▶ Ludo
- ▶ Frustration
- ▶ Monopoly
- ▶ Connect Four
- ▶ Bingo
- ▶ Magnetic Darts - counting up the score
- ▶ Battleship
- ▶ Card games

Websites to support maths at home

- ▶ Top marks - <https://www.topmarks.co.uk/Search.aspx?q=top+marks+maths&p=4>
- ▶ BBC IPlayer - Number blocks - <https://www.bbc.co.uk/iplayer/episodes/b08bzfnh/numberblocks>
- ▶ Nrich- <https://nrich.maths.org/>
- ▶ BBC bitesize - <https://www.bbc.co.uk/bitesize/subjects/z826n39>
- ▶ TTRS - <https://ttrackstars.com/>
- ▶ ICT Games - <https://ictgames.com/mobilePage/index.html>
- ▶ Maths bot - <https://mathsbot.com/>
- ▶ Maths playground - <https://www.mathplayground.com/fun-skill-games.html>

Any questions?

Thank you for coming!