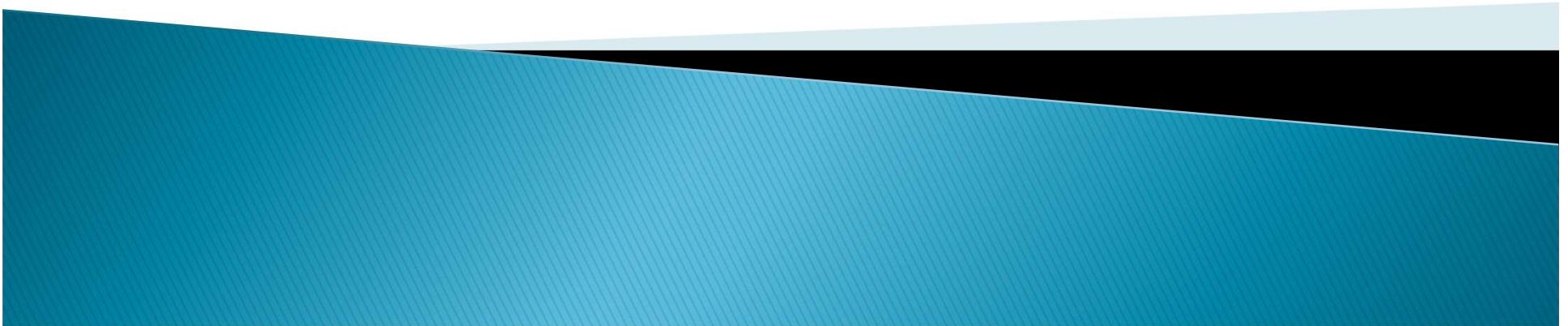




# Year 2 Mathematics Workshop



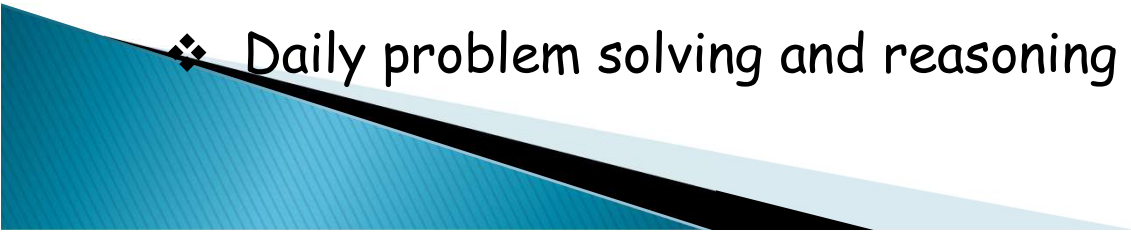
# Aims of the workshop

- ▶ 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



# How is mathematics taught in the infants?

We follow the White Rose Maths scheme. This includes:

- ❖ A 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
  - ❖ Daily opportunities to recap previous learning
  - ❖ Wide use of resources: counting stick, cubes, fingers, hundred squares, number lines
  - ❖ Daily problem solving and reasoning questions
- 

# Year 2 Addition

- Base 10       $23 + 12$



# Year 2 Addition

## Crossing 10

$$56 + 38 =$$



# Year 2 Addition

- Expanded column addition

$$23 + 12 =$$

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



# Year 2 Subtraction

- Base 10

$$36 - 14$$



# Year 2 Subtraction

Crossing 10

$$85 - 37 =$$





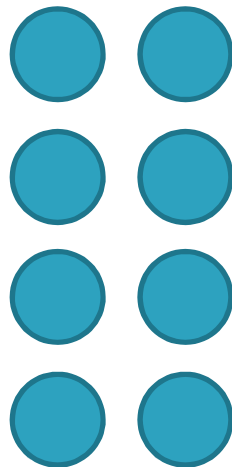
# Year 2 Multiplication

$$4 \times 2 =$$

- Repeated Addition

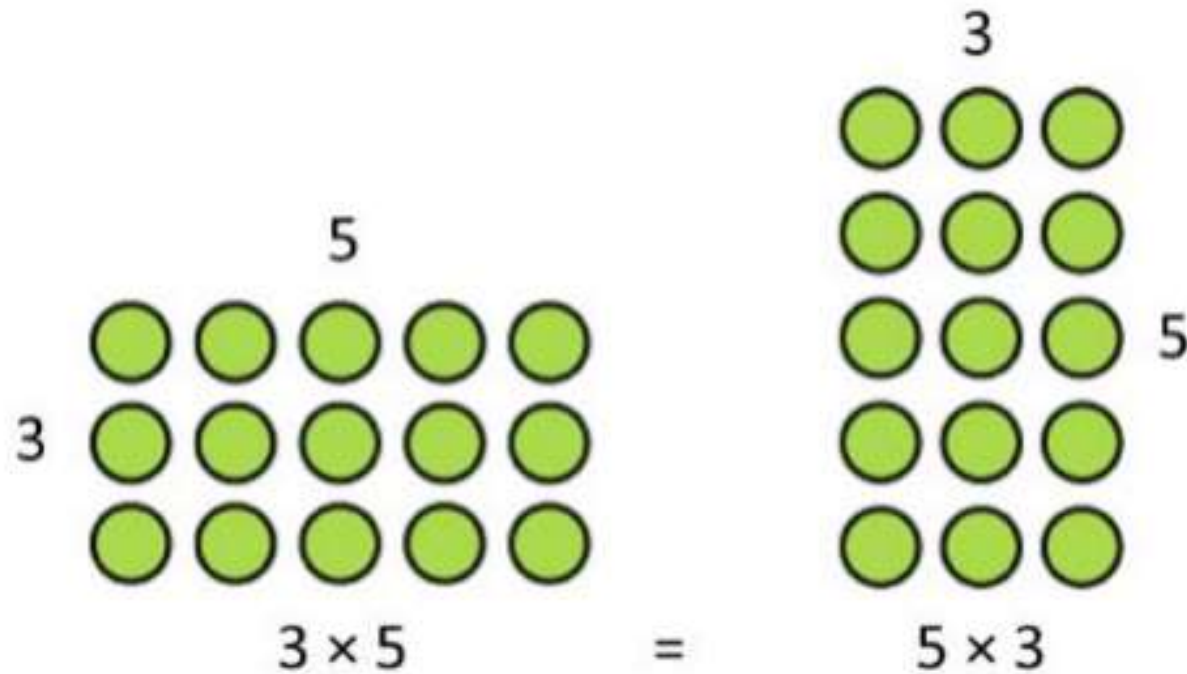
$$2 + 2 + 2 + 2 =$$

- Arrays



# Year 2 Multiplication

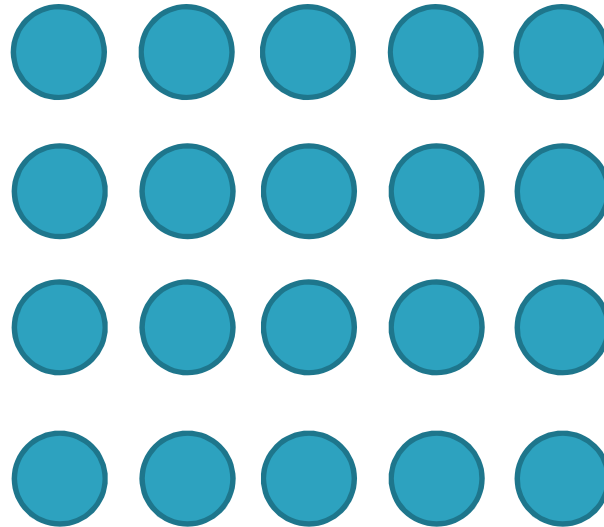
## Commutativity



# Year 2 Multiplication

Draw an array to show

$4 \times 5 =$



# Year 2 Division

$$12 \div 3 = 4$$

## ■ 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  $15 \div 3$ :



# Year 2 Division

$$12 \div 3 = 4$$

- 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  $20 \div 4$ :




# Weekly Times Tables Tests

- ▶ Throughout Year 2, children will be learning the 2, 5 and 10 times tables, in and out of order. They will also learn the related division facts. They will be tested on a Wednesday morning in school.

Term	Step	Content	Number of Q's (max 5 minutes)
Year 2 Autumn 1		Fluency: Consolidate counting in steps of 2, 5 and 10 in order from 0 up to 12x.	
Year 2 Autumn 2 Fluency - Counting in steps of 2, 5 and 10	1	10 times table in order	13 Q's
	2	10 times table in order	13 Q's
	3	10 times table out of order	13 Q's
	4	10 times table out of order	13 Q's
	5	10 times table missing numbers	13 Q's
	6	10 times table division facts out of order	13 Q's
Year 2 Spring 1 Fluency - recall 2 and 10 times tables	1	2 times table in order	13 Q's
	2	2 times table in order	13 Q's
	3	2 times table out of order	13 Q's
	4	10 times table out of order	13 Q's
	5	10 times table missing numbers	13 Q's
Year 2 Spring 2 Fluency - recall 5 and 2 times tables	1	5 times table in order	13 Q's
	2	5 times table in order	13 Q's
	3	5 times table out of order	13 Q's
	4	5 times table division facts out of order	13 Q's
	5	2 times table missing numbers	13 Q's
	6	2 times table division facts out of order	13 Q's
Year 2 Summer 1 Fluency - Count in multiples of 3 Recall 2 and 5 times table	1	2 times table out of order	13 Q's
	2	2 times table missing numbers	13 Q's
	3	2 times table division facts out of order	13 Q's
	4	5 times table out of order	13 Q's
	5	5 times table missing numbers	13 Q's
	6	5 times table division facts out of order	13 Q's
Year 2 Summer 2	1	2 & 5 times table out of order	16 Q's



# Year 2 Assessments

- ▶ Non-statutory assessments in May 2024
  - ▶ 1 Arithmetic Paper
  - ▶ 1 Reasoning Paper
  - ▶ Each paper is tested separately.
  - ▶ The scores are combined to give you a scaled score.
  - ▶ A scaled score of 100 means that they have met the age-related expectation.
  - ▶ A scaled score of 110 means that they are working at greater depth.
- 

## How can you help your child with Year 2 mathematics?

- ❖ Learn number bonds to 10, 20 and 100
- ❖ Learn multiplication facts for 10, 2 and 5 times tables (in and out of order) in preparation for weekly times tables tests
- ❖ Add and subtract numbers mentally
- ❖ Use calculation methods for the four operations
- ❖ Telling the time on an analogue clock- 5 minute intervals including quarter past/to
- ❖ Doubling and halving
- ❖ Using money and counting in coins
- ❖ Fractions - cakes and pizza!
- ❖ Completing weekly Maths homework (sent home on a Friday and handed back in on a Tuesday)

# How can you help?

Talk about  
how you do  
maths

Use a timer

Play games

Give praise and  
encouragement

Everyday  
maths

Ask your  
child to  
explain

Make sure maths is fun!

# How can you help?

## White Rose Resources for Parents

[https://www.amazon.co.uk/s?k=Year+2+white+rose+maths+kindle&i=digital-text&crd=2IPFOE5GTA8KM&srefix=year+2+white+rose+maths+kindle%2Cdigital-text%2C84&ref=nb\\_sb\\_noss](https://www.amazon.co.uk/s?k=Year+2+white+rose+maths+kindle&i=digital-text&crd=2IPFOE5GTA8KM&srefix=year+2+white+rose+maths+kindle%2Cdigital-text%2C84&ref=nb_sb_noss)

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