

PARENT LEARN

Supporting your child's learning in mathematics – Year 5



Fluency in the fundamentals of mathematics and ability to recall and apply knowledge quickly and accurately.



Reasoning



Problem Solving by applying mathematical concepts to problems including breaking them down into smaller steps.

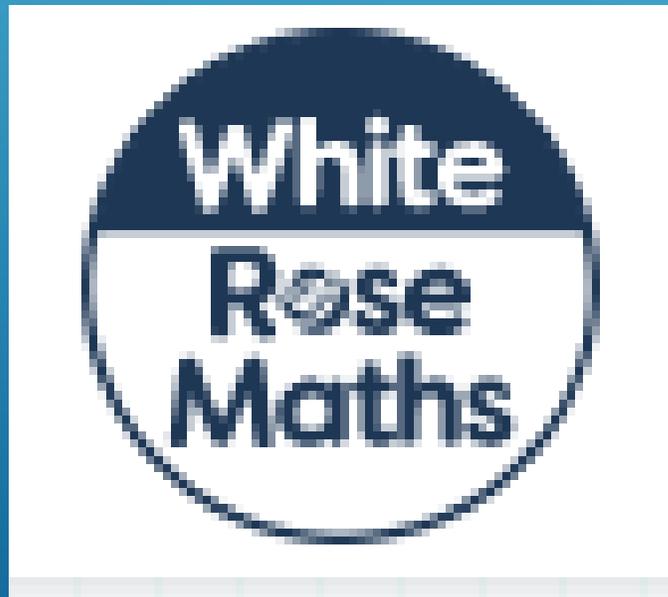
COMPONENTS OF MATHEMATICS

How do we teach mathematics in year 5?

- White Rose Maths
- Concepts broken down into small steps
- Spiralling steps that build and recap prior learning
- Concrete, Pictorial, Abstract

White Rose

White Rose Maths | Free Maths
Teaching Resources | CPD
Training



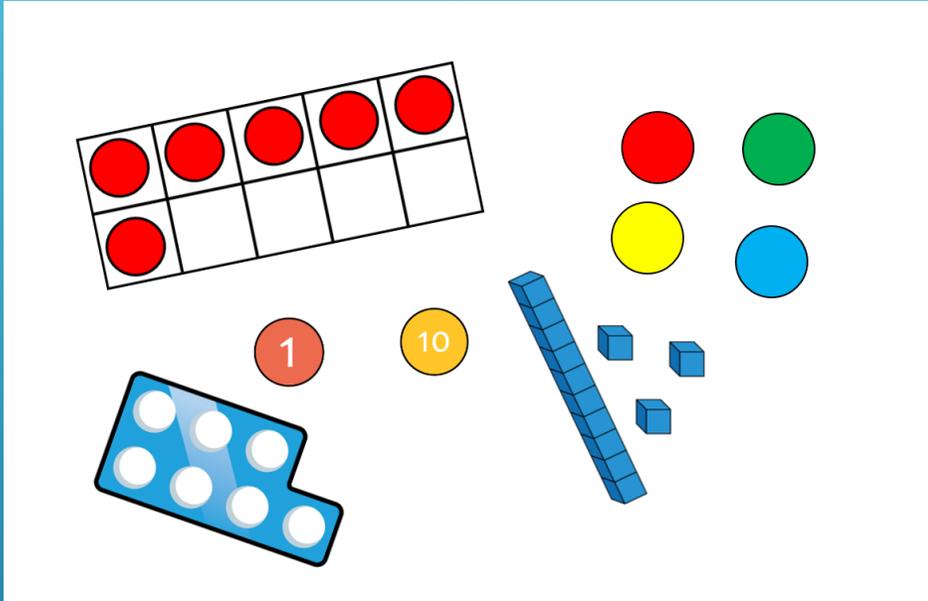
Small steps overview

Overview

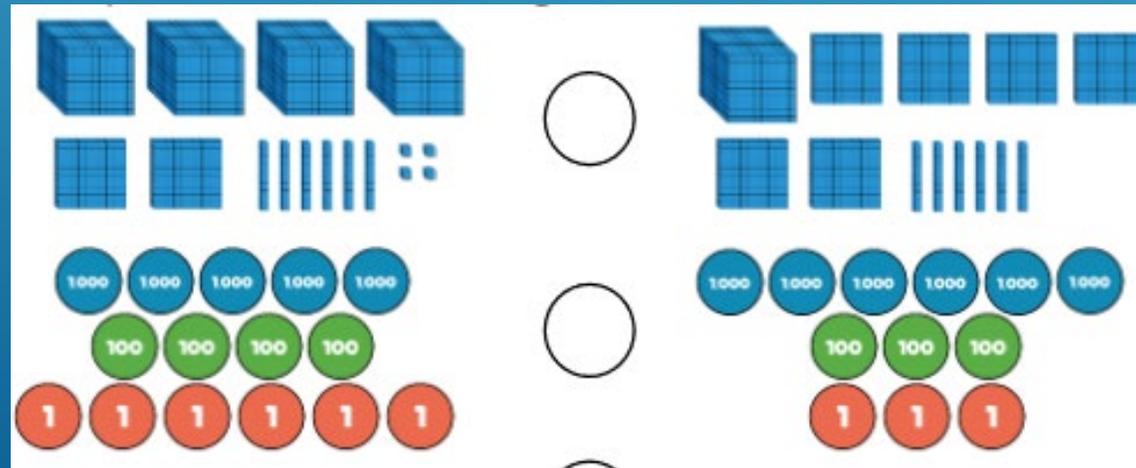
Small Steps

- Measure perimeter
- Perimeter on a grid R
- Perimeter of rectangles R
- Perimeter of rectilinear shapes R
- Calculate perimeter
- Counting squares R
- Area of rectangles
- Area of compound shapes
- Area of irregular shapes

Concrete, Pictorial, Abstract



	5	9	3	4		3	2	7	5
+	2	2	4	6	+	6	1	5	6



Year 5 Content

Already covered:

- Place value – up to 1 million
 - including rounding
- Addition and Subtraction – up to 1 million
- Statistics
 - charts, line graphs and timetables
- Multiplication and Division (1)
 - multiples, factors, square and cube numbers,
multiplying and dividing by 10, 100 and 1000
- Perimeter and Area

Year 5 Content

To Cover:

- Multiplication and Division (2)
- Fractions
- Decimals and percentages
- Properties of shapes (angles)
- Position and direction (co-ordinates, reflection and symmetry)
- Converting units
- Volume

Long Multiplication Method

×	20	2
10	200	20
3	60	6

	H	T	O
		2	3
		3	1
×			
		2	3
+	6	9	0
	7	1	3
	1		

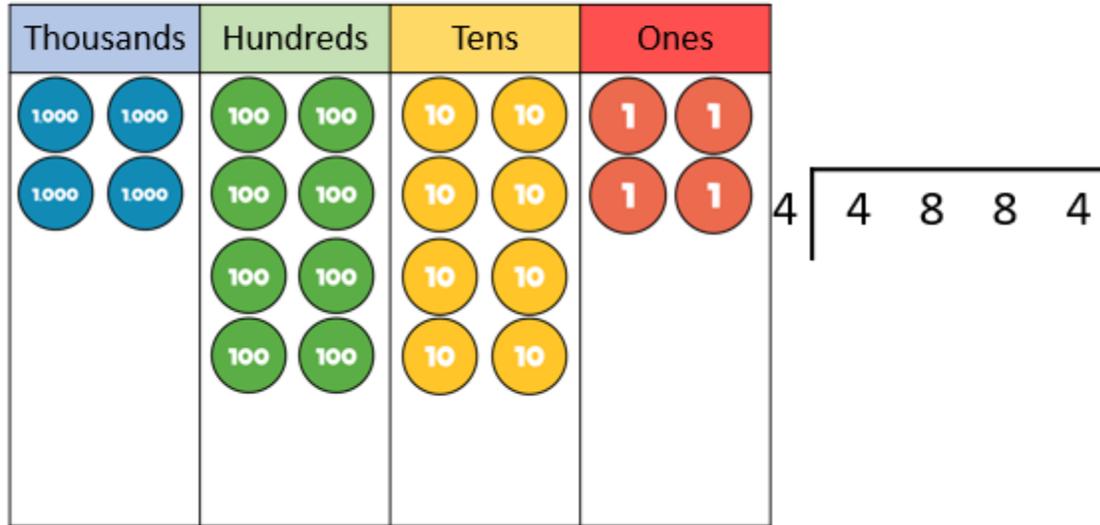
	H	T	O
		2	3
		3	1
×			
		2	3
+	6	9	0
	7	1	3
	1		

(23 × 1)

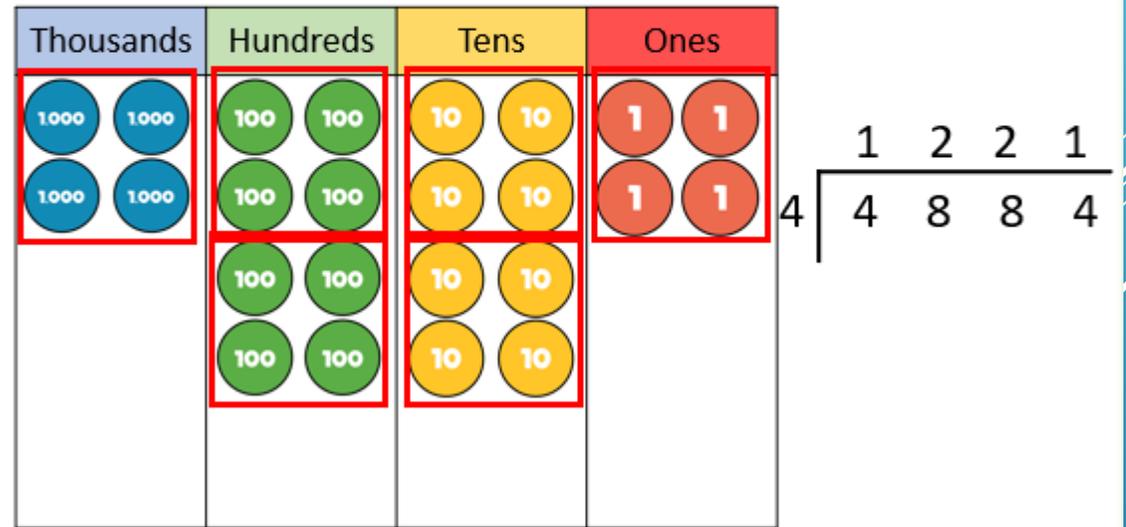
(23 × 30)

Division

There are 4,884 crayons and they come in packs of 4
How many packs are there?



There are 4,884 crayons and they come in packs of 4
How many packs are there? **1,221 packs**



Fractions - equivalent

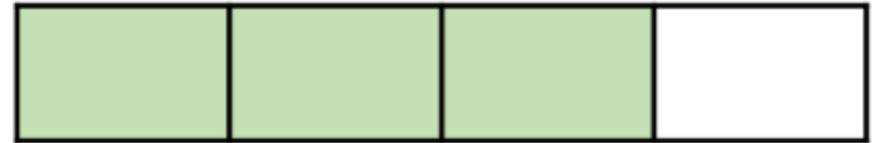
$$\frac{1}{2}$$

$$\frac{2}{4}$$



$$\frac{3}{4} = \frac{12}{16}$$

The equation $\frac{3}{4} = \frac{12}{16}$ is shown with two blue curved arrows. The top arrow points from the numerator 3 to the numerator 12, labeled with $\times 4$. The bottom arrow points from the denominator 4 to the denominator 16, also labeled with $\times 4$.



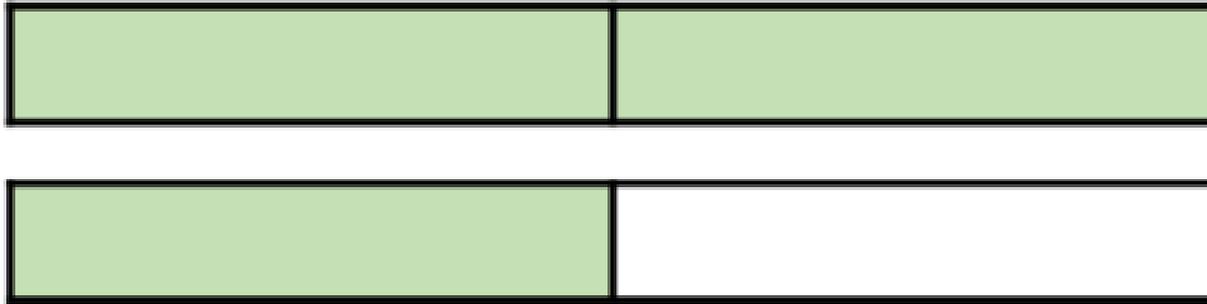
$$\frac{3}{4} = \frac{9}{12}$$

A diagram illustrating the conversion of the fraction $\frac{3}{4}$ to $\frac{9}{12}$. The fraction $\frac{3}{4}$ is on the left, and $\frac{9}{12}$ is on the right, with an equals sign between them. A blue arrow curves from the numerator 3 to the numerator 9, labeled "x 3". Another blue arrow curves from the denominator 4 to the denominator 12, also labeled "x 3".

$$\frac{3}{5} = \frac{9}{15}$$

A diagram illustrating the conversion of the fraction $\frac{3}{5}$ to $\frac{9}{15}$. The fraction $\frac{3}{5}$ is on the left, and $\frac{9}{15}$ is on the right, with an equals sign between them. A blue arrow curves from the numerator 3 to the numerator 9, labeled "x 3". Another blue arrow curves from the denominator 5 to the denominator 15, also labeled "x 3".

Fractions - mixed and improper fractions



$$\frac{3}{2} = 1 \frac{1}{2}$$

This is a **mixed number**.

It is a number with a whole and a fraction.

Multiplications and associated division facts

1, 10, 100, 1000 more than or less than

Halves and doubles

Making numbers to 10, 100 and 1000

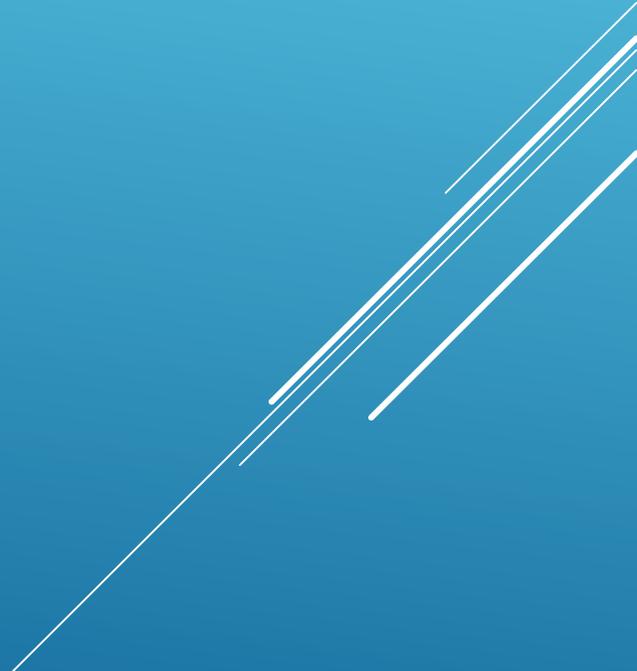
Multiplying and dividing by 10, 100 and 1000

PRACTISING FLUENCY OF MENTAL ARITHMETIC



HOW TO HELP AT HOME

Useful websites for fluency

- ▶ Hit the button
 - ▶ Maths is fun
 - ▶ Purple Mash
 - ▶ Times Tables Rockstar
- 
- A decorative graphic consisting of several parallel white lines of varying lengths, slanted upwards from left to right, located in the bottom right corner of the slide.

HOW TO HELP AT HOME

- Try not to hurry through the curriculum. Each small step is important and children need time to process and apply the learning from each step.
- If your child is struggling at home with a particular topic or question, please let me know. Sometimes a child will need to go back a few steps (this may even be to the steps from the previous year) to consolidate their prior learning before they can grasp a new concept.
- A positive view of maths.



ANY
QUESTIONS?

