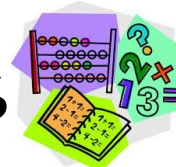




Maths Masterclass

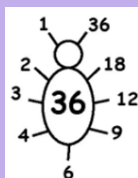


Year 4: Spring 2

Welcome back to another Maths Masterclass Newsletter. We hope you are enjoying our Maths Newsletters. We have included the key coverage and some strategies that we use for teaching maths in class, alongside some online resources and activities for your child to try at home. We hope this helps with supporting your child at home and celebrating their success.

Multiplication and Division

This half term, we will be introducing factors. If you can divide a number by other numbers and get a whole number (integer) as the answer, then you will be able to find the factors of that number. The children will apply their knowledge of times tables and division facts to be able to find factor pairs. They may present their factor pairs using factor bugs like this one.



You could pick a number up to 100 and get your child to find all of the factor pairs (using the factor bug above as a way to represent this).

We will then apply our factor pair knowledge to solving different multiplication calculations and unpick different ways we may calculate them to help us with our efficiency.

$$\begin{aligned} 18 \times 3 &= 3 \times 6 \times 3 \\ &= 3 \times 3 \times 6 \\ &= 9 \times 6 = 54 \\ 18 \times 3 &= 54 \end{aligned}$$

Finally, we will be revisiting short multiplication for up to 3-digit by 1-digit multiplication calculations. The method we will be using can be found below:

		Th	H	T	O
			2	3	4
	x				6
		1	4	0	4
			2	2	

Geometry

In geometry, we will be focusing on translation. This includes describing movements on a grid. We will be using the language of up, down, left and right. A good head start for your child would be to check they know their left and rights!

Fractions

This half term, we will complete some work on fractions. We will revisit how to **subtract a fraction from a whole**. For example $1 - \frac{3}{5} = ?$ For this, the children need to recognise that the 1 whole is equivalent to $\frac{5}{5}$. Then this calculation can be viewed as $\frac{5}{5} - \frac{3}{5} = ?$

We will also be revisiting **adding mixed numbers**.

For example:
 $2 \frac{2}{6} + 3 \frac{3}{6} = ?$
 For this, $2 + 3 = 5$, $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$.
 So, $5 + \frac{5}{6} = 5 \frac{5}{6}$.

We will then be completing lots of work on solving problems using fractions.

Family challenge

Maths Countdown:

Reset cards and target

640

Generate new target

25

5

6

8

3

1

One possible way uses only 4 cards...

Reasoning

You may have heard the teachers talking to you about developing your child's reasoning skills. This is when you are able to apply mathematical concepts in a range of ways and being able to explain what they mean clearly. Here is an example for you to discuss:

$\frac{7}{8}$	$\frac{5}{2}$
$\frac{5}{12}$	$\frac{5}{7}$

Can you identify the odd one out?
 There is more than one possibility! Use some of the key words to describe your reasoning:

improper proper mixed number fraction
 numerator denominator digit



Maths at Home



Maths website to support parents and maths problem-solving at home



Nrich has a range of maths games, problems and articles on all areas of maths. Parents can select either 'Stage 1' or 'Stage 2' to support and consolidate mathematical concepts. These usually tie in with the Key Stage of your child.
<https://nrich.maths.org/frontpage>
Each problem has a difficulty rating with 3 stars being the hardest.

Raising the profile of Maths



A good understanding of everyday maths will help your child with the important tasks such as making decisions and understanding information. It will also help them develop lifelong skills. Whilst you are at home you could play maths related games to help engage your child. For example, there are so many 'undercover' maths games that can help your child learn and practise a range of basic skills such as Monopoly, Dominoes, Four in a row, Scrabble and general card games.



Please try to spend 10-15 minutes practising times tables as often as possible to support fluency. Fast recall of times tables really helps children when they solve problems and do more complex maths!

Each half term we will be running battles between the classes in every year group weekly and one for over the whole half term.

Our next battle will be running from **Monday 20th February — Friday 31st March.**

Having trouble logging on? Pop us an email at admin@hamble-pri.hants.sch.uk and we can try to assist.

YEAR 4: **Winning class:** **PENGUINS!**

Lots of excellent determination with times tables across Year 4. Well done to all, keep it up!

Will we be seeing your class and name on the next newsletter?

Let's BATTLE!

