



Hillcross Primary School

Maths Newsletter

Spring 1

Despite the short half term, what a busy Spring 1 we have had as mathematicians!

Read the latest edition of our Maths newsletter to find out what your child has been up to in their maths lessons at Hillcross (and get tips on how you can support them).

Examples of learning in school:

This half term our children have been immersed into calculations involving addition, subtraction, multiplication and division. Children have confidently used stem sentences in order to structure their mathematical thinking and they have been exposed to representations in order to deepen their learning.

To multiply a whole number by ten, place a zero after the final digit of that number.

$$\begin{array}{r} 507 \times 10 = 5070 \\ 9005 \times 10 = 90050 \\ 5010 \times 10 = 50100 \\ 10101 \times 10 = 101010 \\ 47 \times 10 = 470 \end{array}$$

To divide a multiple of ten by ten remove a zero from the ones place.

$$\begin{array}{r} 740 \div 10 = 74 \\ 5000 \div 10 = 500 \\ 7410 \div 10 = 741 \\ 70000 \div 10 = 7000 \end{array}$$

To multiply a whole number by ten, place a 0 after the final digit of that number.

$$\begin{array}{r} 21 \times 10 = 210 \checkmark \\ 35 \times 10 = 350 \checkmark \\ 104 \times 10 = 1,040 \checkmark \\ 109 \times 10 = 1090 \end{array}$$

To divide a multiple of ten by ten, remove a 0 from the ones place.

$$25 + 47 =$$
$$\begin{array}{r} + 25 \\ 47 \\ \hline 72 \end{array}$$

5 + 7 = 12
Ten 2ones

If the column sum is 10 or more, we must regroup.

factor \times factor = product

dividend \div divisor = quotient

$$15 \div 5 = 3$$
$$3 \times 5 = 15$$

3 groups of 5 = 15
5 three times = 15
 $5 \times 3 = 15$

If the column sum is equal to ten or more, we must regroup.

IP2

$$49 + 43 = 92$$

4	9
T	0
4	9
4	3
9	2

$$27 + 45 = 72$$

2	7
T	0
2	7
4	5
7	2

odd \times odd = odd
even \times odd = even
even \times even = even

If the column sum is equal to ten or more we must regroup: regroup.

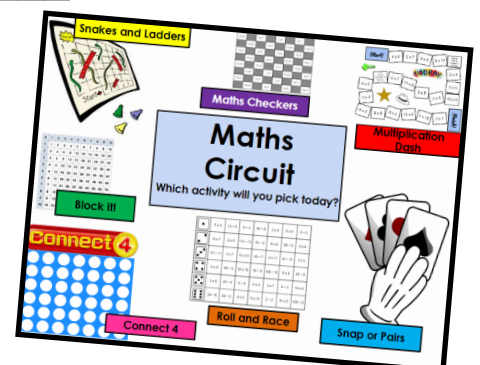
IP2

$$49 + 43 = 92$$
$$349 = 12$$

4	3
4	9
4	2

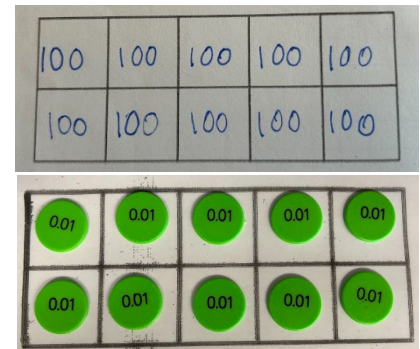
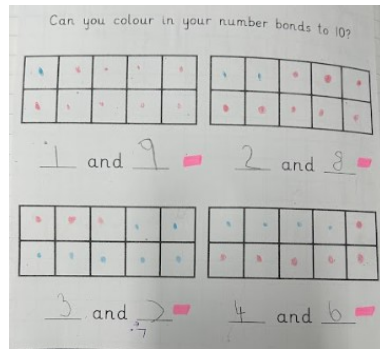
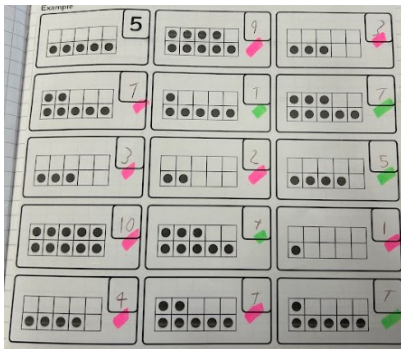
Helping Your Child At Home:

A fantastic way for children to practise their fact fluency is through games. At Hillcross, we have adapted traditional games, such as *Snakes and Ladders*, *Connect 4* and *Jenga* and incorporated maths questions. For example, in order for children to move up the ladder in *Snakes and Ladders*, they must solve a times table question.



Representations: The Tens Frame

Representations are crucial to supporting mathematical understanding. They expose the mathematical structure and support the context of the learning. Over time, our children progress to abstract thinking without the representation—this is when maths seems easy! The **Tens Frame** is a representation used to show how parts are combined to make the whole. Look at examples of how these have been used in the classroom across the school to show subitising, number bonds and decimal understanding.



Famous Mathematicians:

Shakuntala Devi

‘The Human Computer’ Shakuntala Devi was an Indian mathematician, writer and teacher. She was popularly known as the ‘Human Computer’ because of her incredible ability to solve maths calculations quickly in her head – she travelled the world to show others her skill. Devi was even able to multiply two 13-digit numbers in her head ($7,686,369,774,870 \times 2,465,099,745,779$) and gave the correct answer of 18,947,668,177,995,426,462,773,730 in just 28 seconds!



The Hillcross Times Table Pledge

It is better to *solve one problem five different ways* than to *solve five problems one way*.

As a school, we **pledge** to devote 10 minutes every day to practise times tables. This could be through a recall game or a teaching strategy.

In return, **you pledge** to practise your times tables at home, every day, for a minimum of 10 minutes.

By following this pledge, you will become more efficient mathematicians and be confident in applying your knowledge to different contexts in mathematics.



The Hillcross Number Pledge

With mathematics, there is nothing you cannot do. Everything around you is mathematics. *Everything around you is numbers.*

As a school, we **pledge** to devote 10 minutes every day to practise our number facts in order to improve our understanding of numbers and become fluent mathematicians.

In return, **you pledge** to practise your number facts at home, every day, for a minimum of 10 minutes.

This fluency practice can be: subitising, counting, doubling, halving, adding and subtracting using varied representations.

