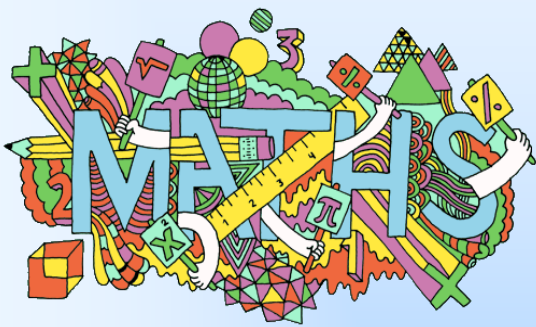




# Can We Solve It?



This year's Maths Week theme was:

*'Can We Solve It?'*

We used this theme to grapple with all sorts of activities and investigations that helped the children to understand that there is much more to maths than the National Curriculum alone!

## KS1

## How Do You See It?

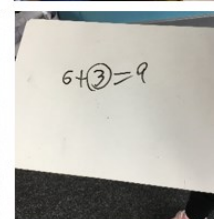
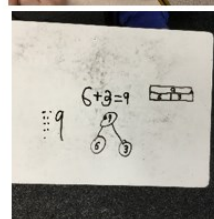
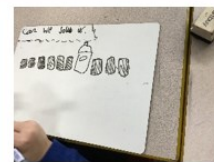
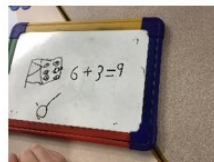
In KS1, we looked at various word problems and considered how we could represent what the problem was asking us. We used pictures, numbers, lego figures, toys, counters and other objects to help us make sense of the problem..



It was Toby's birthday and he had 6 birthday cards.

Some more cards arrived in the post and then Toby had 9 cards.

How many cards arrived in the post?



# Can We Solve It?

## Representing Numbers

Together, we looked at all the different ways in which we could represent the number 8.

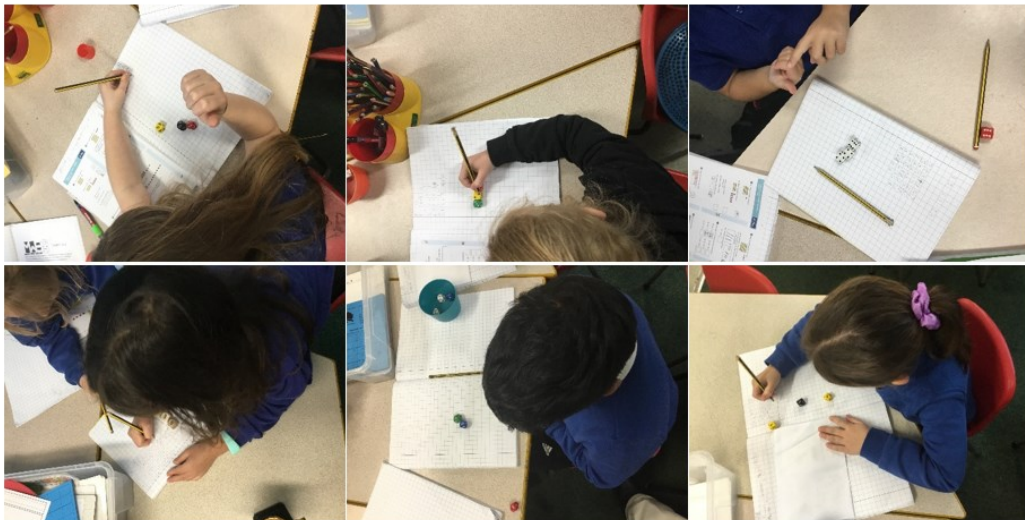
We were encouraged to use sentence stems and explain our reasoning.



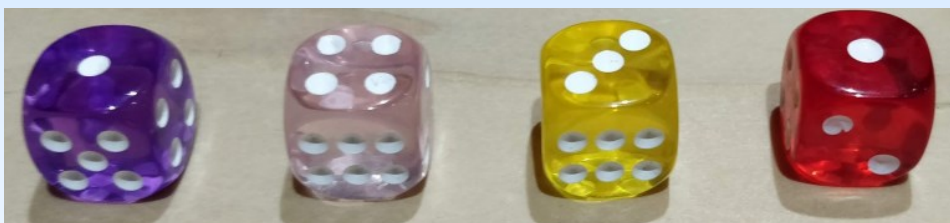
## Dice Totals

We rolled the dice to generate numbers and added those numbers together.

Today we threw dice then added the 3 numbers together.



We also explored placing dice in a row to see if we could position them without creating a total of ten from any of the dice. We explored how many ways this was possible.

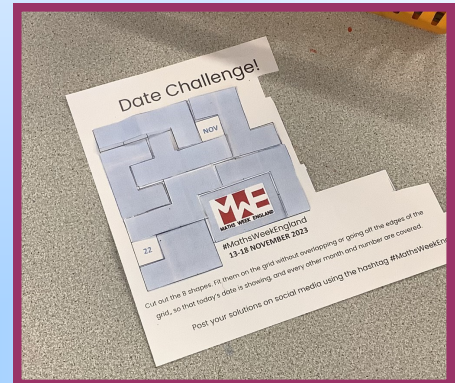


# Can We Solve It?

## KS2

In KS2, we took part in a variety of activities.

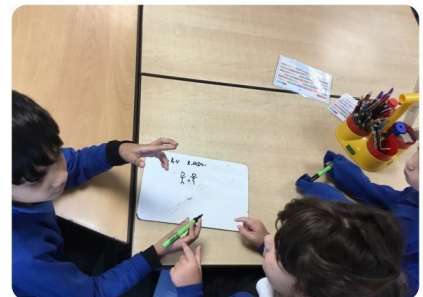
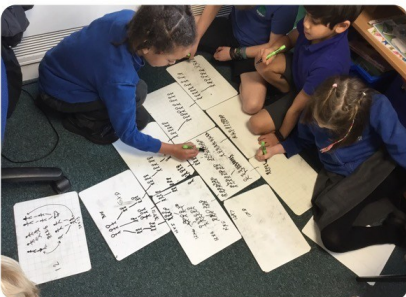
We started each day by arranging pieces of paper over a calendar so that only the month and that days date was left visible. It was much trickier to complete than we thought!



## Surprising Split

In KS2, we looked a trick method for multiplying by 11.

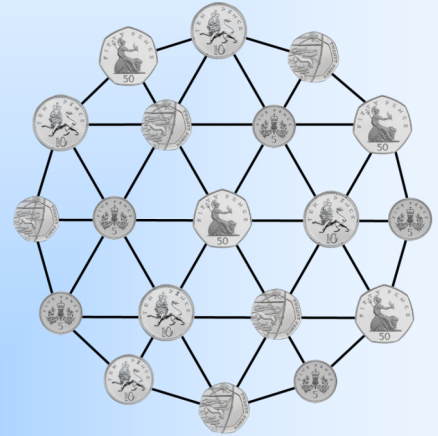
We explored lots of different two-digit numbers to see if this trick always works and tried to write our own explanations for why and how it works. We were also challenged to see if we could find an example where the trick didn't work at all.



# Can We Solve It?

## Coins

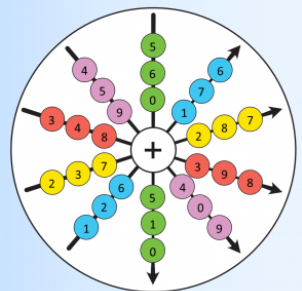
We played a game involving taking turns to remove a coin from a web and add it to a pile. We could only remove a connected coin from within the web and were aiming to choose the right coin in order to avoid tipping the total over £1 on your go! It was great fun.



## Addition Wheels

We arranged the digits 0-9 in three rings.

This created 5 addition calculations across the wheel. We were aiming to create a total of over 1,000 for each addition calculation.



## Numbrella



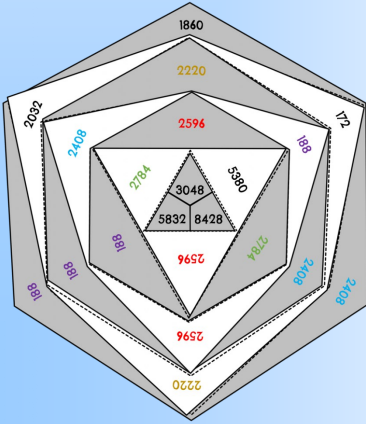
We enjoyed solving an online escape room!

# Can We Solve It?

## Difference Daisies

We began with three numbers placed in a triangle.

We then paired up the numbers and found the difference between each pair. This created three new numbers and we continued the process to see how big we could get our daisy!



## Distinct Digits to 5555

We looked at adding two sets of 4-digit numbers together to create a target sum of 5,555.

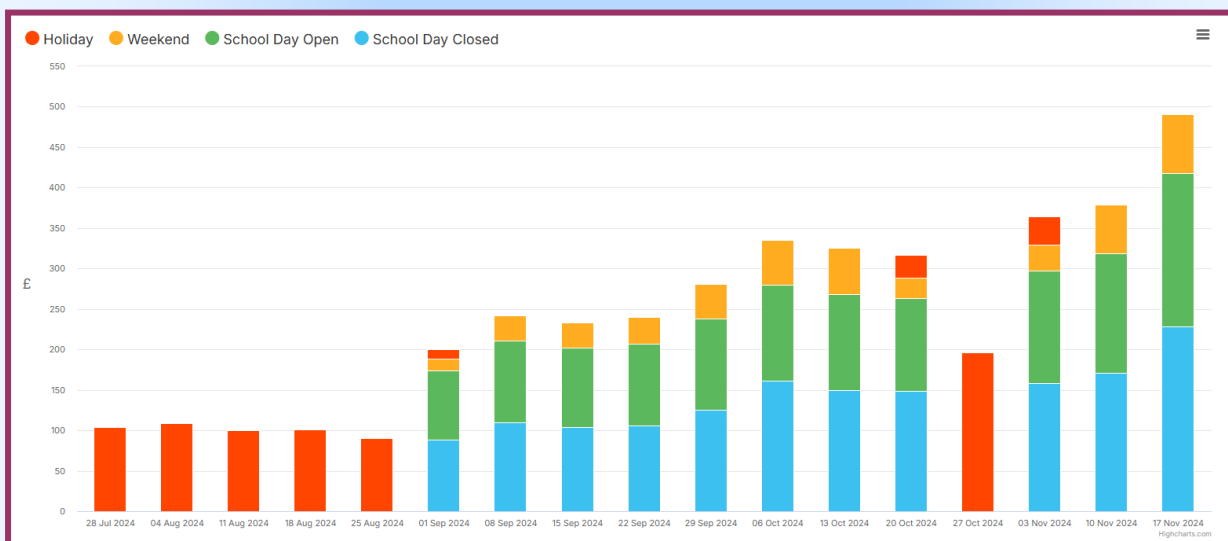
We were challenged to try and use each digit as few a times as possible within the calculation.

$$\begin{array}{r} 2383 \\ + 3172 \\ \hline 5555 \end{array} \quad \begin{array}{l} \swarrow \\ \searrow \end{array} \text{ addends}$$

# Can We Solve It?

## Energy Sparks

Together, we looked at the live data from the Energy Sparks account that we hold. This showed us the amount of energy that the school uses, representing that in pounds, kWh and CO<sub>2</sub>. We looked at our energy usage since August followed by our weekly and daily usage.



We were shocked to learn that the school still needs to pay for energy when it is closed overnight, at the weekends and during the holidays. We were even more surprised to learn that the energy usage when the school is closed is very similar to the amount used during the day.

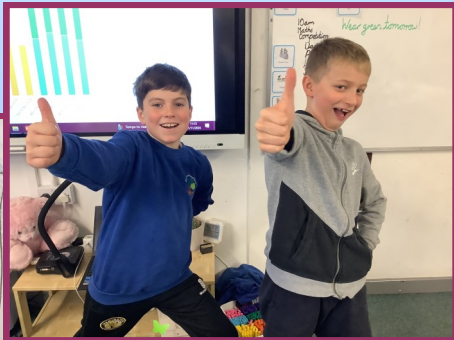
We designed energy mascots:



# Can We Solve It?

## Energy Sparks

We made promotional videos and posters to reinforce the message about using less energy in the future. Eco-Club then judged the entries and are deciding how we can best use these as a promotional tool.



### SAVE ENERGY!!!

BAD	what is	GOOD	What we want
Don't be	80	Do be	€50
	€70		€40
	€30		€30
	€20		€20
	€10		€10
	€5		€5

You need to START saving energy by turning off light when none is in them or you can stop going on computers and iPads or you can save money by not being sloth all the time and that will save earth!

# SAVE CO2!

Did you know that our school uses €600 a day just for electricity?

From Aida and CHARLEY

People waste their money gas and electricity

Trees make people pay more money during day



### SAVE THE WORLD FROM CO2

In the morning and night you have to turn the heating off and save 20 km of all of the lights and another cause of electricity you'll be 80000% less than the electricity.

SPS - Saving Using Electricity

## STAY GREEN

- Plant trees for oxygen
- Use green face 2 days
- Use outside for a lot 10m square day
- Use less off these green devices for the same day you'll look to save energy
- Use a laptop share will be more common
- Use a laptop share will be more common
- Use a laptop share will be more common

### Do you want the world to explode?

Because if you don't save some energy or else the world will turn into nothingness and you won't be able to breath.

and stop cutting down trees it would well.

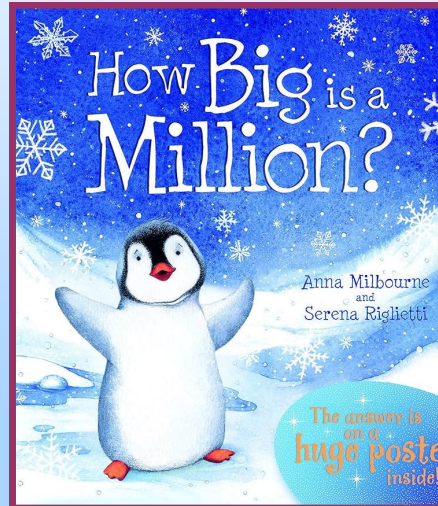
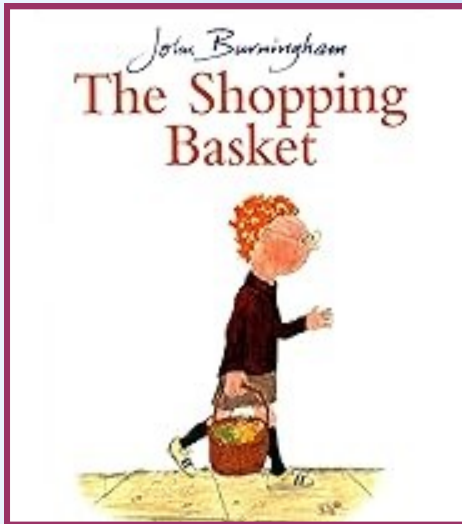
This is recent data from our school of electricity

Activity	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Electricity	10	15	20	25	30	35	40
Gas	5	10	15	20	25	30	35

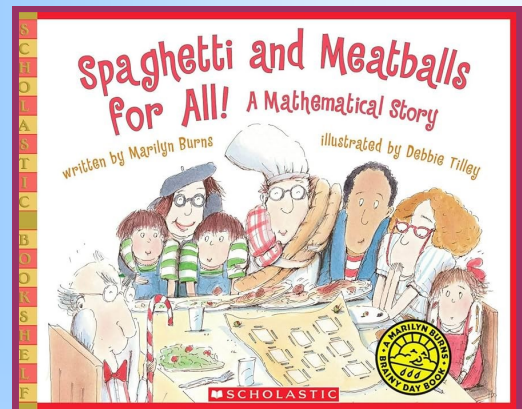


# Can We Solve It?

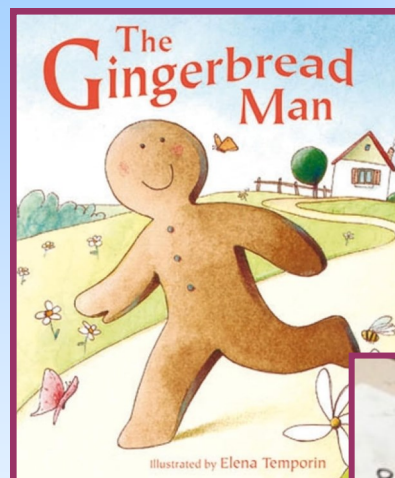
## Maths through Stories



During Maths Week, across the school we used stories as a stimulus for mathematical problem-solving. The children really enjoyed approaching their maths in a different way.



In Year 6 we explored using AI to help us create percentage maths stories of our own. Once they were created, we solved each others problems.





# Primary Maths Challenge

10 children from Year 6 and 10 from Year 5, each competed within their year group in a maths competition. They had 45 minutes to answer 25 multiple choice questions. They involved a lot of reasoning and problem solving! All of the children that took part, did so with enthusiasm and vigour!

Here were our winners...

## Year 5



Silver

Romilly Barnes



Gold

Benji Lazar



Bronze

Joseph Offer  
Sam Mooney

## Year 6



Silver

Emily Dempsey



Gold

Peter Hall



Bronze

Thomas Berry

Some of our competitors may be offered the chance to compete in a bonus round later in the academic year. We'll keep you posted!

Well done to all of the children involved.