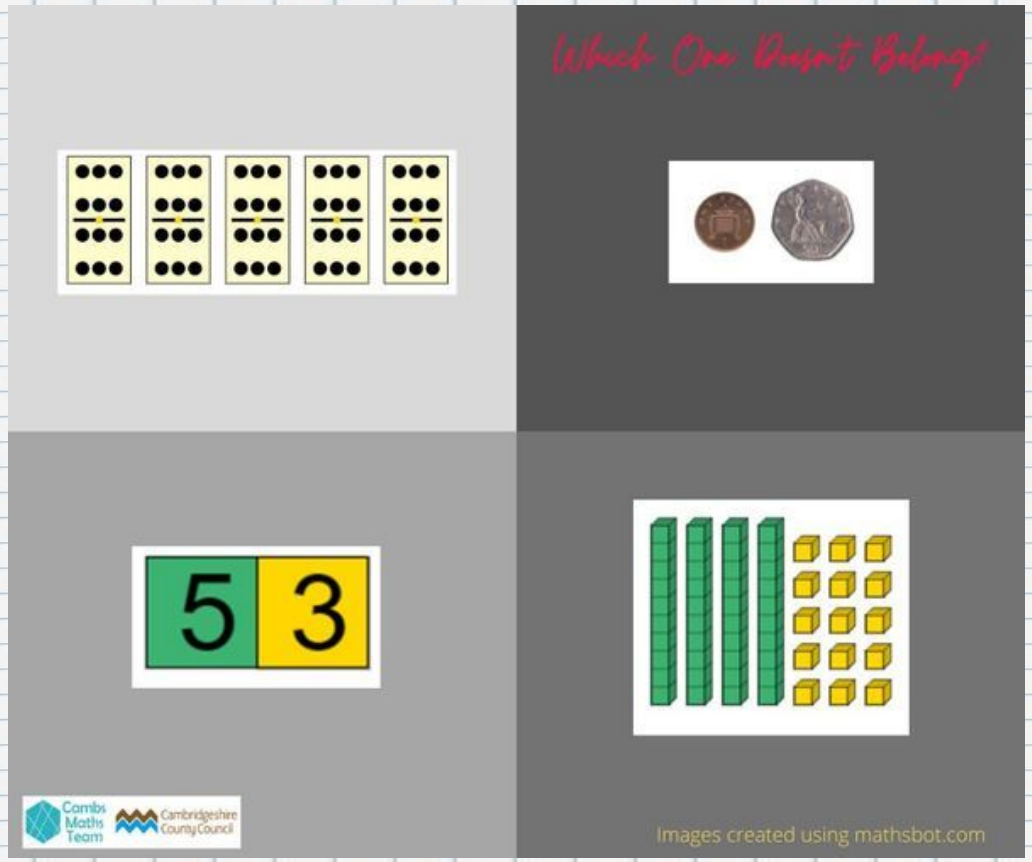
Monday 7th February 2022

Which One Doesn't Belong?

Monday - Which One Doesn't Belong?



Which One Doesn't Belong?

This week's WODB contains different representations of numbers. Each image shows a different number, represented with different resources.

With younger children you can talk about the value of the numbers and identify the one that is most different from the others. With older children you might choose to talk about the way the image has been represented and identify which one is most different.

Tuesday 8th February 2022

Maths Eyes

Tuesday - Maths Eyes

Maths Eyes

Cambs Maths Team

- Maths Eyes activities are designed to help make connections and 'see' where maths is in the world around us.
- Images and real-life experiences seen through 'Maths Eyes' promote engagement, enthusiasm and creativity, as well as building confidence, in maths.
- Using mathematical language to describe what can be seen, and speculate about what cannot, broadens reasoning skills and logical thinking.
- Cross curricular links can be made and progression in learning can be evident by comparing the responses of learners at different ages and stages.
- Prompts and suggestions can be provided or adapted, if required, depending on the intended topic focus or experience that the learner has.
- Sharing ideas and collaborative discussions can generate an even greater range of responses after individual reflections.

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Tuesday - Maths Eyes

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Maths Eyes

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What shapes can you identify? How many doors are there altogether? What strategies could you use to count the number of windows? Do any of the houses have symmetrical properties? How do these houses compare to where you live?

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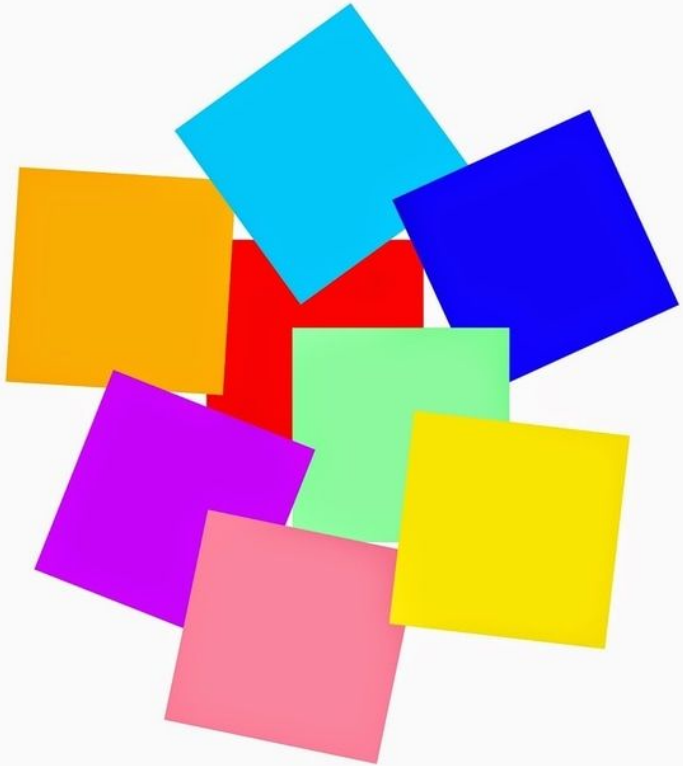
Wednesday 9th February 2022

Maths Challenge!
(pick your level)

The Falling Origami Papers Problem

Eight origami papers fell on the floor.
Work out the order in which they landed.



I'm Eight

Age 5 to 11
Challenge Level ★

When I went into a classroom earlier this week a child rushed up to tell me she was 8 that day.

Well, Happy Birthday to everyone who has a birthday today!

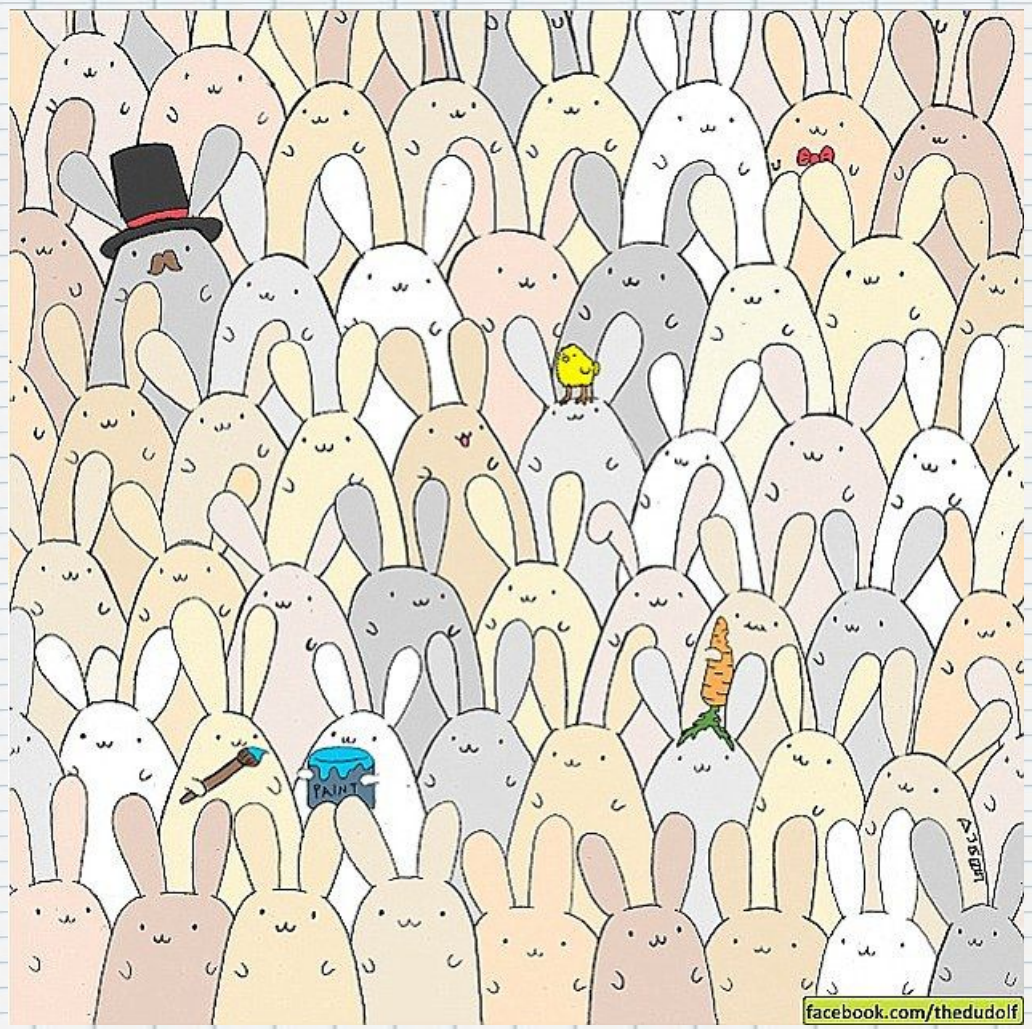
This challenge is about finding a variety of ways of asking questions which make 8.

You might think of 6 + 2, or 22 - 14 or...

However, try to create examples that use all the different mathematical ideas that you know about.

Perhaps you could challenge yourself to find ways of making 8 that you think no-one else will have thought of.

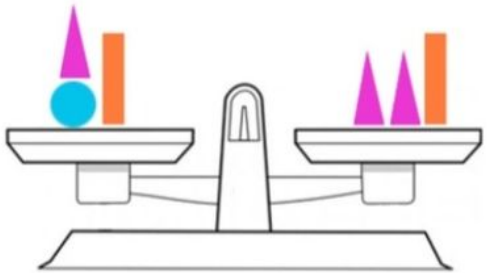
If you are not 8 years old, you might like to use your age instead of 8.

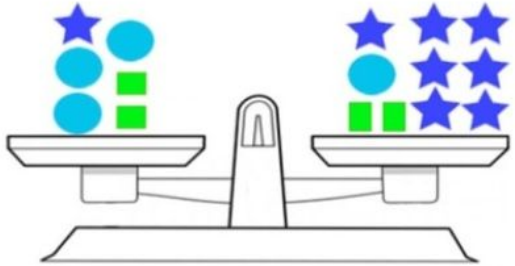


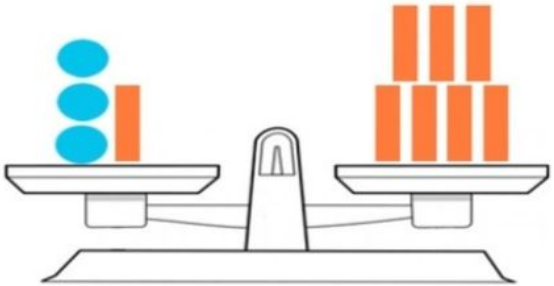
How many bunnies?

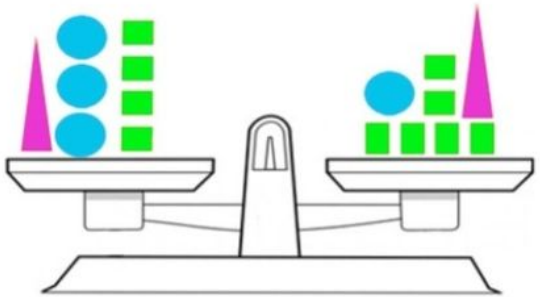
Balance Puzzles

Each of the scales below is balanced - with equal weight on the two sides. Remove as many blocks as possible so that each remains balanced.









If the blue ball weighs 12 ounces, how much does each of the other blocks weigh?

Pancake Proportions

Recipe Ratio	3 pancakes	12 pancakes	30 pancakes
6 pancakes			
 100g flour			
 2 eggs			
 300mL milk			
 1 tbsp olive oil			
 1 pinch of salt			

Thursday 10th February 2022

Estimation and Benchmarking

Thursday - Estimation and benchmarking

Estimation and Benchmarking

Cambs Maths Team

- Estimating is roughly calculating or judging a value or number – it doesn't need to be exact, but it should be reasonable or 'sensible' in the real world.
- A benchmark is a known standard or reference point against which something else can be measured or compared. We can use a benchmark that we do know to estimate a measurement or quantity that we don't.
- Using mathematical language to describe the benchmark in relation to the estimate broadens reasoning skills and logical thinking.
- Cross curricular links can be made and progression in learning can be evident by comparing the responses of learners at different ages and stages.
- Prompts and suggestions can be provided or adapted, if required, depending on the intended topic focus or experience that the learner has.
- Sharing ideas and collaborative discussions can generate an even greater range of responses after individual reflections.

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Thursday - reasoning prompts

Encouraging mathematical thinking and reasoning:

Describing
What do you notice?
How many can you see?
How do these pine cones compare with yesterday's beads?

Reasoning
How many do you think there are? Why do you think that?
Will it be more or less than 20? A lot more/less? Or a little more/less?
Will it be between 15 and 20? A little or a lot more than this? Or less than this?
How many can you see? How many do you think are hidden?
Was your guess more or less than the actual count?
Was your guess very close/way out? Why do you think that was?
Can you put the estimates in order on the board/washing line?
Were most people close or far out?

Thursday - Estimation and benchmarking

ESTIMATION STATION

Cambs Maths Team

What denomination of coin could this be? How many coins do you think are touching the surface at the base of the tower? What is the height of the tower and what would be an appropriate unit of measurement? Estimate how many coins there are altogether. How much would all of these coins weigh in total? What would the monetary value of this coin tower be? If you were to make a similar construction of the same value but with a different denomination of coin, which coin would you use and how many coins would you need?

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Friday 11th February 2022

Times Tables focus

- Which times tables award are you working towards?

Practise your skills on TTRockstars:

https://ttrockstars.com/

Some more games here:
http://www.maths-games.org/times-tables-games.html

Times table support here:
https://home.oxfordowl.co.uk/maths/primary-multiplication-division/help-with-times-tables/

Sutton School's Gem Certificates of Times Table Excellence

1		Sky Blue Topaz	doubling with equipment
2		Swiss Blue Topaz	doubling and halving with equipment
3		Pink Imperial Topaz	doubling without equipment
4		Reddish-pink Imperial Topaz	halving and 10 x
5		Mystic Topaz	doubling, halving and 10 x
6		Azotic Topaz	divide by 10
7		Black Opal	2 x, 5 x, 10 x multiplication and division facts
8		Emerald	2 x, 3 x, 4 x, 5 x, 10 x multiplication and division facts
9		Ruby	2 x, 5 x, 10 x, 3 x, 4 x, 6 x, 7 x, 8 x multiplication and division facts.
10		Sapphire	all multiplication and division facts to 12 x 12
11		Diamond	all multiplication and division facts to 12 x 12 and complete the grid in under five minutes
12		Blue Diamond	elite level in all areas of multiplication and division

STRIVE