

## Covid-19 Update 9<sup>th</sup> April 2020

Last weeks content has been moved to the home learning page.

Click here for my updated maths websites and publications list. Children in Years 5 and 6 who would like a challenge, follow the link for the Maths Association annual "Maths Challenge". The maths challenge takes place every year. On this page you can find old maths challenge papers and for teachers, parents and carers, the answers are published as a separate document.

Here are some more games, activities and problem solving to keep your 5 – 11 year olds busy over Easter. The next update will be on or after April 16<sup>th</sup> 2020.

### Can you find...?

This is an old favourite game of mine. A game for two or more players, each with a game card with the same statements written on each. The game is not about adding or subtracting but the properties of number and the vocabulary we use in mathematics.

Can you find...?

You will need:

- a score card and pencil for each player
- two dice (1 – 6 spot)

Taking turns, each player rolls the two dice. Looking at the numbers generated, can you place the two numbers under Game 1 on the same row?

After each pair of numbers has been written down on the score card, they cannot be moved.

Score 1 point for every statement satisfied.

There are ten rolls per game.

Can you find...?	Game 1	Game 2	Game 3
Difference of 2	3 1		
Both numbers even	6 2		
Both numbers odd	3 5		
One twice the other	1 2		
Sum greater than 10	6 5		
Factors of 12			
Second double the first			
Difference of 3	5 2		
Sum of 8	4 4		
Sum of 10			
Total	7		

*Player 1 rolled a 3 and 1. These numbers have a difference of 2, so they can be written on the game card.*

*Player 1 rolled a 6 and 6. "Both numbers are even" and a "Sum greater than 10" have already been used and have numbers written in the boxes from previous rolls, so player 1 misses a go. After taking turns and rolling the dice ten times, player 1 has managed to satisfy 7 statements, so their score is 7. The winner is the player who*

- wins the most games or
- the winner with the greatest total after three games.

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### Playing card activity

This is a simple card game for 2 to 4 players. The object is to make a total of 25 by adding and subtracting numbers generated by the playing cards.

Hit 25 using playing cards

Written by Liz Gibbs

The Busy Lizzie Maths Library

## Addition with dominoes

You will need a full set of dominoes.

Can you sort them into dominoes with the same total number of spots, or can you sort them into sets of dominoes with the same difference?

## Addition with dominoes

This is an activity for EYFS and KS 1 children

You will need:

- a complete set of dominoes
- paper plates or circles drawn on paper to put the dominoes in

Instructions:

Total the spots on your dominoes.

- How many dominoes are there with a total of 9 spots?
- How many dominoes are there with a total of 6 spots?
- How many dominoes are there with a total of 3 spots?
- How many dominoes are there with a total of 10 spots?
- Which total has the fewest dominoes?
- Which total has the most dominoes?
- Why?

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## Digit card calculations

Here are three problems that need a set of digit cards and operation cards.

These can be made at home from paper or card. There are three puzzles to complete (answers provided) for upper KS 2 children.

## Digit card calculations

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You will need the following digit cards.

1 2 3 4 5 6 7 8 9 + - x ÷

Using the cards only once, can you make the statements correct.

$$? ? ? ? = 28$$

$$? ? ? = 32$$

$$? ? ? ? = 48$$

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## Straw squares

Using 20 squares or sticks, what is the greatest number of squares you can make?

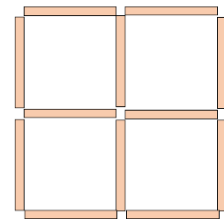
## Straws

There are 12 straws in this pattern of 5 squares.

Take 20 straws.

Arrange them to make as many squares as you can.

How many squares did you make?



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### Coded times table problem

Each number has been replaced with a letter. Can you work out the value of each letter using your knowledge of times table facts?

Coded times table problem

This is a coded times table. Look at the calculations. Can you work out what each letter represents?

$C \times B = FB$	$B \times B = GB$
$F \times B = GK$	$H \times B = AB$
$D \times B = FK$	$J \times B = B$
$A \times B = JB$	$E \times B = AK$
$G \times B = JK$	

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### Digit card addition

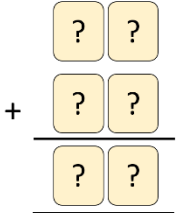
You will need a set of numbered cards from 1 to 9.

Can you use just 6 cards to make an addition problem and it's answer?

Digit card addition

You will need a pack of digit cards from 1 → 9  
Using only 6 cards, can you arrange them so that they make an addition problem and the answer?

Find two possible solutions.  
Remember you are using digit cards, so you can't use the same number twice.



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### Digit card subtraction

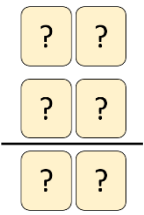
You will need a set of numbered cards from 1 to 9.

Can you use just 6 cards to make a subtraction problem and it's answer?

Digit card subtraction

You will need a pack of digit cards from 1 → 9  
Using only 6 cards, can you arrange them so that they make a subtraction problem and the answer?

Find two possible solutions.  
Remember you are using digit cards, so you can't use the same number twice.



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## Calculation grid

You will need some digit cards to compete these activities. Aimed at KS 1 and lower KS 2, this activity is about mental addition and problem solving.

1

### Calculation grid

The sum of each pair of numbers in a column or a row is shown in the star. Can you put these numbers into the correct squares to make the addition sums correct?

56911


2011

1516

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## 20 divided into 6

An old favourite of mine. Works well with Years 5 and 6.

You will need a set of 20 digit cards.

### Twenty divided into six – an NRICH problem

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

Katie had a pack of twenty cards numbered from 1 to 20. She arranged the cards into six piles. The number on the cards in each pile added to the same total.

[www.nrich.maths.org/1047](http://www.nrich.maths.org/1047)

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## Websites & publications (updated 9<sup>th</sup> April 2020)

### **New this week**

**NEW to this list** [Government page](#) Covid-19 web page containing weblinks to primary and secondary educational websites.

**NEW to this list** [Maths on Toast](#) Teachers page

**NEW to this list** [Maths on Toast](#) Parents page

**NEW to this list** [Parallel](#) A site for 10 to 15 year olds

**NEW to this list** [Numicon](#) A New Zealand site with resources and downloads

**NEW to this list** [Maths Association](#) Primary maths challenge. Download past challenges from [here](#)

### **Mathematics dictionaries**

Avoid using scary adult dictionaries, either order a child friendly one from Amazon such as Suitable for KS 1 and lower KS 2

- First Illustrated Maths dictionary: Usborne
- Oxford First Illustrated Dictionary: Oxford

Suitable for KS 2

- Junior Illustrated Maths Dictionary: Usborne
- Oxford Primary Illustrated Maths Dictionary: Oxford

Suitable for KS 3 and above

- Oxford Students Mathematics Dictionary: Oxford
- Maths Dictionary Age 11 – 14: Letts

or go online and use one of these websites.

[Cool Math](#)

[Maths is Fun](#)

[A Maths Dictionary for Kids](#)

[National Numeracy](#) Pdf sheets of mathematical activities for children aged 5 – 11

[Yohaku](#) Yohaku puzzles are short number puzzles available via Twitter @yohakupuzzle and his website or for a modest amount of money, junior books are available on Amazon price £3.99 – £4.50.

[ATM \(Association of Teachers of Mathematics\)](#) There are some activities and publications free to download, a majority of this is for older children upper KS 2, KS 3 and GCSE.

[Maths Mastery](#) Primary maths and English resources

[White Rose \(Mastery\)](#) Year group specific free resources.

[Maths with parents](#)

[Maths Life](#) Maths without a worksheet ideas

[Sumdog](#) Free access to maths, spelling and grammar

[No pressure maths](#) Download and print games

[Oxford Owl at home](#) Publishers of reading and maths schemes

[Pearson](#) Publishing house of educational materials

[First for maths](#)

[Collins](#) Collins have opened a webpage of ideas from their old Belair publications. Well worth a look.

[Propeller](#) A (Suffolk) local publishers, who publish a fantastic resource called the rapid recall board. At the moment they have opened up sales to parents and carers, so you can

buy the boards in single units. These boards are fantastic, you decide the number you are going to use in the coloured square or shape. That number then appears in the same coloured shape across the board and in effect sets you child a series of questions around that number, measures and shape. Every day will be different. Use a whiteboard pen, so that the answers can be wiped away at the end of the day. Your child can try to beat their own time or get further down the board. You might want them to concentrate on a particular aspect of maths, so encourage them to fill in only part of the board. You decide. I do not take any payment from anyone regarding maths products, I only promote the resources I like and use myself. After talking with the company this week, if you mention my name you may be able to get some sort of additional discount on the online price. Here is some information and links from the publisher.

We are pleased to say that we have now made the Rapid Recall Boards more readily available to parents and home tutors who may need them, along with some free download bundles.

[Zeno maths](#) An American home schooling website with some useful downloads and ideas.

[Messy maths](#) Lots of ideas and inspiration for teaching young children.

[NRICH](#) A problem solving website for all ages

[NRICH](#) specifically for EYFS

[10 Family Card Games That Support Early Math Skills](#) Card games are an inexpensive way to enjoy family fun while also building math skills—all you need is a deck of playing cards!

[Math at Your Fingertips!](#) Easy Counting Activities Using Number Gestures

[Origami and Paper Wizards:](#) Fold Some Math into Your Day! These activities can be done with whatever paper is available—scrap paper, newspapers, or magazine pages would work.

[Easy Recipes That Will Get Your Family Talking About Math](#) Four recipes that children can help make along with tips for talking about math while cooking together.

[Math Talk: Measurement at Home](#) By looking for everyday ways to talk about units and measurement, you can help support children's developing mathematical understanding.

