

Covid-19 Update 14th May 2020

Last weeks content has been moved to the home learning page in the form of a pdf download with weblinks. Check out all the previous content.

While you are on this site, check out the problem solving and reasoning page by clicking [here](#). There are lots of problems and puzzles to solve.

The Dice, dominoes and digit cards page has lots of hands on maths ideas. Click [here](#) to visit the page.

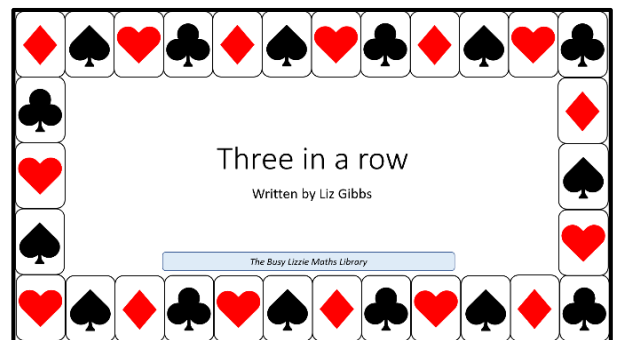
Here are some more games, activities and problem solving to keep your 5 – 11 year olds busy. It's a bumper crop of over 20 files this week. The next update will be on or after May 21st 2020. The final update will be on or after the 28th May. In January 2021 the content will be moved and reorganised on this website.

Click on the activity or game images to take you to the file online.

Three in a row

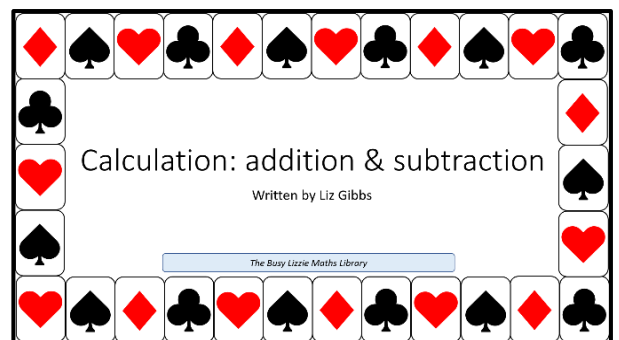
Arrange a few of the cards into a 3 x 3 grid.

You will need a few counters and two dice for this game.



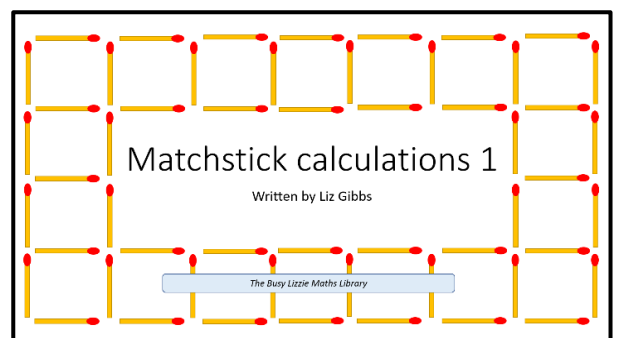
Calculation: addition and subtraction

A very simple card game for two players. Take turns to turn over a card each and add or subtract the two numbers.



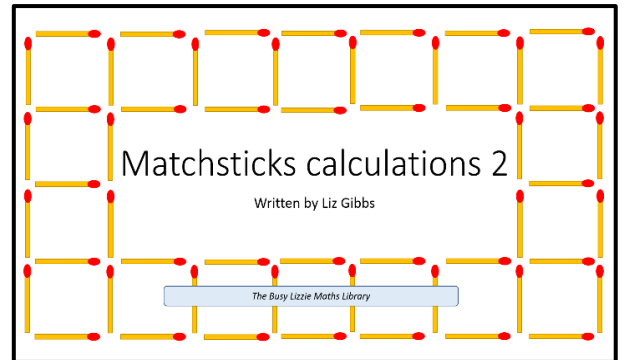
Matchstick calculations set 1

I've added to the matchstick files with these obviously wrong addition and subtraction equations. Can you move, add or subtract a given number of matchsticks to make the equation correct?



Matchstick calculations set 2

Another set of six calculations for you to correct by moving, adding or subtracting a given number of matchsticks.




Knock out

A game for two players and two dice.

Who can get the largest score after 3 rounds?


Knock out!



A game for two or more players and 2 dice.

Each player rolls the dice to generate a number. They keep rolling the dice as long as they like and keep adding to their score. However, if the player rolls two dice which total 7, they will lose all their points.

The player with the highest score after 3 rounds wins the game.



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Start on 5 and end on 4

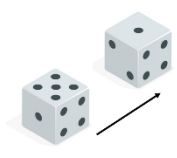
Roll the dice carefully forwards, backwards, left and right. In eight moves can you change the number at the top of the dice from a 5 to a 4?

Start on 5 and end on 4

You can move forwards, backwards, left or right.

In 8 moves, can you start on the number 5 and end on the number 4?

Use some squared paper to record your moves.



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Addition question and answer

A quick problem using digit cards. Read the question carefully. Can you create a similar question using digit cards?

Addition question and answer

$$\square + 7 \square = 8 \square 3$$

You will need a set of digit cards 0 → 9.
You can use the cards only once.
Which digits are missing that will make this sum correct?

Can you find 2 possible addition questions with the answer 83? What are they?

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Addition problem

Using digit cards, can you make a three-digit plus two-digit calculation and answer? Can you find more than one solution?

An addition problem

0 1 2 3 4 5 6 7 8 9

Using the cards only once and this arrangement of cards, can you make a three-digit plus two-digit column addition and answer?

$$\begin{array}{r} \square \square \square \\ + \square \square \\ \hline \square \square \square \end{array}$$

Can you find more than one way to do this?

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Mystery domino 1

Ideal for EYFS and KS 1.

Listen to the clues being read and find the domino it describes.

Mystery domino 1

My domino has a total of 6 spots
My domino has two different digits
The numbers on my domino has a difference of 2

Mystery domino 1

Ideal for EYFS and KS 1.

Listen to the clues being read and find the domino it describes

Mystery domino 2

My domino has a total of 7 spots
My domino has two different digits
The numbers on my domino has a difference of 3

Mystery domino 1

Ideal for EYFS and KS 1.

Listen to the clues being read and find the domino it describes

Mystery domino 3

My domino has a total of 5 spots
My domino has two different digits
The numbers on my domino has a difference of 1

Domino pyramid

A simple addition pyramid, suitable for KS 1.

Can you complete the domino pyramid?

Domino pyramid 1

Here is a pyramid of dominoes. The sum of the two lower dominoes has the same sum as the domino above. Can you put the dominoes in the correct rows to solve this addition pyramid?

A more challenging problem

You must use all the dominoes to make 7 domino squares from 4 dominoes. The sides of each domino square must have the same total.

Domino challenge

- Can you make this arrangement of dominoes?
- Can you make 7 arrangements, using the whole set of 28 dominoes.
- All four sides of each arrangement must have the same total.
- Can you complete the domino challenge?

Domino magic square

Can you arrange the dominoes into a square where all the columns, rows and diagonals total 5?

Domino magic square

Can you put these dominoes into a square arrangement, where every column, row and diagonal adds up to 5?

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Make 25

Find touching squares that total 25. There are several answers for each square. How many can you find?

Make 25

Here are three squares. Can you link and use the boxes only once to make a sum of 25? How many ways can you find?

1	7	4
9	2	3
8	5	6

4	3	6
8	5	2
1	9	7

3	5	2
9	4	7
6	1	8

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Mystery cards

This is a logic problem. Follow the clues and work out which two numbers are on the cards.

Mystery cards

Shamim has a pack of cards numbered from 1 to 20. He picks four different number cards.

- Exactly three of the four numbers are multiples of 5.
- Exactly three of the four numbers are even numbers.
- All four of the numbers add up to less than 40.

Write what the number could be?
Explain how you solved this to a friend.

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Three rings of 15

Ideal for upper KS 1 and lower KS 2. Using the digit cards only once, can you put them into three rings? Each ring has a total of 15. There are several answers to this problem. How many can you find?

Three rings of 15

Draw three rings.

Use each of the numbers from 1 to 9.

Write them in the rings so that each ring has a total of 15.

Find different ways to do it.

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Three-digit calculations

Aimed at Year 3 and above. Can you work out the missing values?

Three-digit calculations

Can you make the three numbers along each line add up to 678?

Where will you start?
What calculations are needed?

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Consecutive numbers

Can you find three consecutive numbers which total 39? If you can solve this, find the consecutive numbers for 1 – 50. Which ones can you make? Which ones can't you make? No decimals allowed.

Consecutive numbers

Can you find three consecutive numbers which add up to 39?

6 7 8

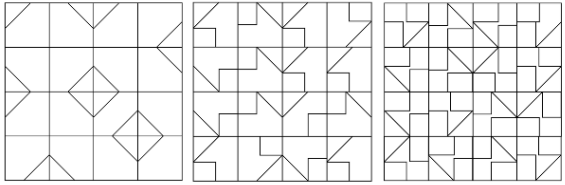
- What other numbers up to 50 can you make by adding three consecutive numbers?
- What do you already know about consecutive numbers?
- How are you going to solve this problem?

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Can you find the odd one out?

A tricky visual problem. Can you find one square in each large square which is different in each large square which is different?

Can you find the odd one out?



Each square is made up of 16 smaller squares. One square in each puzzle is different from all the other squares. Can you find all three?


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Five cards

Can you find all the possible answers by using these clues?

Five cards

Here are five digit cards. They are face down, so you can't see the number written on them.



The **red** and **blue** stand for *two different* whole numbers.
The sum of all the cards is 30.
What could the values of the red and blue cards be?

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Prime numbers

Do you know your prime numbers to 20? Can you work out what all the prime numbers to 100 are? You need to find two primes that total 100. There are several answers to this problem. Can you find them?

Prime numbers

Two prime numbers are added together.

The answer is 100.

Find all the possible solutions?

100

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Websites & publications (updated 14th May 2020)

New this week

[Classroom secrets](#) Online teaching and learning resource with free home learning packs.

[TTS](#) Free home learning packs

[IXL](#) Home learning with IXL

[TES](#) Home learning essentials

[Yorkshire Water](#) Home learning ideas

[Cambridge learn together](#) Home learning resources

Websites

[Mathematics Centre](#) A wealth of mathematics here for teachers and parents.

[Maths Frame](#) The old NNS ITPs plus some new ones free to use.

[Thinking mathematically](#) A blog of mathematical ideas and activities

[Play with your math](#) A lovely page of maths puzzles

[Magic Message](#) Andrew Jeffrey's website

[Illustrative mathematics](#) Non UK site. Has some activities & games via the standards button.

[Study Smart](#) Free online times tables

[We are teachers](#) Ideas for using manipulatives in the classroom

[The Oak National Academy](#) The new government-backed home learning tool

[Spot on with Number](#) Hungarian 10 blocks and ideas

[Maths bot](#) An online tool for teachers and parents. Scroll down for primary manipulatives

[22 fun ways to teach multiplication](#) Online page of ideas for teachers and parents.

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

[BBC bitesize](#) complete BBC maths listing

[STEM](#) resource packages for teachers

[Maths Association](#) Primary maths challenge. Download past challenges from [here](#)

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

[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.

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

[NRICH](#) specifically for EYFS

[Maths on Toast](#) Teachers page

[Maths on Toast](#) Parents page

[Numicon](#) A New Zealand site with resources and downloads

[Cool Math](#) online maths dictionary

[Maths is Fun](#) online maths dictionary

[A Maths Dictionary for Kids](#) online maths dictionary

[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](#) Downloads available

[7 Puzzle](#) blog the website linked to the above Twitter account

[Rising Stars](#) book company. Some free activities online

[Primary Games Arena](#) Online maths games

[Parallel](#) A site for 10 to 15 year olds

[Yohaku](#) Yohaku puzzles are short number puzzles available via Twitter @yohakupuzzle

[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.

[Propeller](#) A (Suffolk) local publishers, who publish fantastic resources.

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

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

[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](#) Everyday ways to talk about units and measurement, you can help support children's developing mathematical understanding.

Twitter

Anna Williams [@AWillia49259812](#) Mini Maths ideas and video.