

Covid-19 Update 16th April 2020

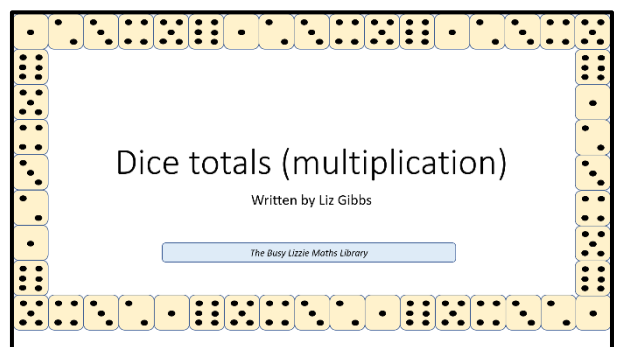
Last weeks content has been moved to the home learning page in the form of pdf downloads with active weblinks.

Here are some more games, activities and problem solving to keep your 5 – 11 year olds busy over the last few days of the Spring (Easter) break. The next update will be on or after April 23rd 2020.

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

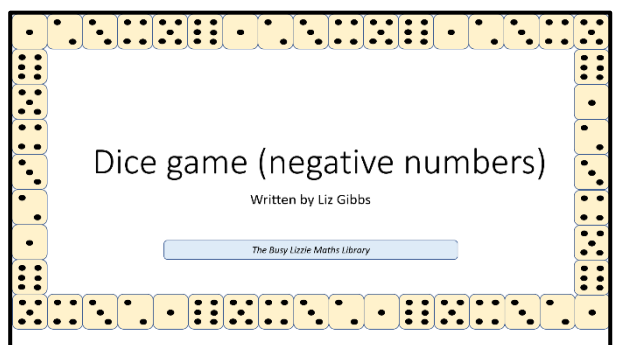
Dice totals (multiplication)

A game for two players with a game card each. Roll two dice and multiply the numbers together to get an answer (product), then add it to your running total. Ideal for Year 3 and above with ideas for upper KS 2.



Dice game - Negative numbers

Using dice of different colours to add and subtract numbers, taking the players into negative numbers on a number line. Ideal for upper KS 2.



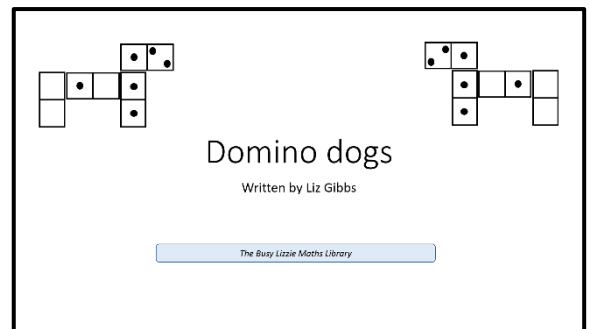
Getting started with playing cards

Here are 5 simple matching, sorting and ordering activities to try out with the youngest members of your family.



Domino activity

A simple activity for EYFS and KS 1. Can you make a dog from 4 domino pieces? Can you make your dog work exactly 10 spots?



Domino dogs

Written by Liz Gibbs

The Busy Lizzie Maths Library

This page shows two examples of 'domino dogs' constructed from four dominoes. The first dog has a head with 2 spots, a body with 1 spot, and a tail with 1 spot. The second dog has a head with 2 spots, a body with 1 spot, and a tail with 1 spot.

Can you make 1?

Using the numbers in this file, can you make 1? An ideal activity for Year 4 and above, as the grid is full of decimals.

Can you make 1 using the numbers on this grid?

A seven page teaching and learning resource written by Liz Gibbs


The Busy Lizzie Maths Library

Digit card activities and games

1. Recognising numerals

This is a short activity for young children. You will need a set of digit cards made from card or the back of a food packet.

Recognising numerals



You will need

- a set of digit cards from 0 – 10
- a pencil and paper (optional for writing the numeral)

Take the digit cards and shuffle them. Arrange them randomly face up on the table. Ask the child to find a number card for you, e.g. 5. When the child finds the correct number, ask them to find you five toy cars or the number 5 in the room (could be the number on a clock, the number 5 on a birthday card or a page number in a book). Ask the child to tell you anything they know about 5.

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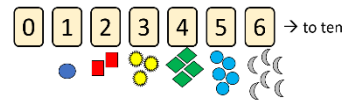
2. Odds and evens

Another EYFS and KS 1 activity. You will need some digit cards and some small items such as buttons, shells, crayons and small toys such as toy cars.

Odds and evens

Arrange the cards in order from the smallest number to the greatest number (or the greatest to smallest).

Ask the child to find that number of things to put under each card, for example, 1 crayon will be near the 1 card, 2 paper clips will be near the 2 card and 3 toy cars near the number 3 card etc.



0 1 2 3 4 5 6 → to ten

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3. Place value game

A game for two or more children. You will need multiple sets of digit cards for this activity. Children are asked to build two two-digit numbers and say which is the smallest or greatest. There are suggestions for older children using bigger numbers, decimals and fractions.

Place value game using 1 → 9 digit cards

This activity is ideal for pairs or small groups of children. You will need multiple sets of 1 → 9 digit cards. The object of the game is to make the biggest number.

- deal 4 cards to each child
- using all 4 cards, the children then look at their own cards and then arrange them into two two-digit numbers, without letting the other children see.
- the child with the biggest two-digit number wins the round.
- play five rounds (with someone keeping the score)

This activity can be extended by changing the rule.

- the smallest two-digit number wins
- the second largest/smallest number wins
- make two numbers with the greatest/smallest difference

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4. Digit card place value game

A game for 2 or more children. You will need multiple sets of digit cards for this game.

Digit card place value game

You will need:

- multiple sets of 0 – 9 digit cards
- some counters, buttons, pennies, etc.
- a pencil and paper (optional)

This is a game for 2 to 5 children.
Place the counters or small items in the middle of the table
The adult shuffles all the cards and then deals 10 to each child.
The children look at their own cards and will decide which cards to play in each round of the game.

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Problem solving

Adding up to 20.

Can you find sets of four squares in a 2 x 2 arrangement that total 200?

There are many combinations on this grid.

Adding up to 200

Find sets of four squares in a 2 x 2 arrangement that have a sum of 200.

90	10	70	80	10	50
10	90	30	20	90	50
80	30	50	60	70	20
80	10	40	50	20	80
90	20	40	70	60	40
10	80	50	40	70	30

How many sets can you find?


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Bucket and beanbags

A lovely place value and finding all possibilities problem for KS 1 children. Why not find a hoop and an old bucket and take this activity into the garden? If you don't have beanbags, pairs of rolled up socks work just as well.

Bucket and beanbags

Kim threw four beanbags at a bucket.
If the bean bag landed in the bucket, she scored 10 points.
If the beanbag landed outside the bucket in the hoop, she scored 1 point.



How many different scores can Kim make with 4 beanbags?

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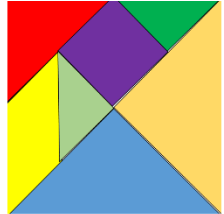
Tangram squares

There are several Tangram templates online. Download a 7 piece tangram and see if you can make squares using a different number of pieces. It's harder than it looks.

Tangram squares

Using the seven piece of your tangram each time, can you make.....

- A square using one shape?
- A square using two shapes?
- A square using three shapes?
- A square using four shapes?
- A square using five shapes?
- (you can't make a square using six shapes)




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Greater than 500

A digit card finding all possibilities problem for Year 3 and above. Make some digit cards from cardboard or the back of a food packet. Find all the different three-digit number combinations over 500. How many can you find?

Greater than 500

Here are some digit cards



Write all the three-digit numbers, greater than 500, that can be made with these cards.


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Join the dots

This problem looks like an easy problem, but you need to think quite carefully about it to be able to solve it. As with all my files, the solution is included at the end of this document.

Join the dots

Can you join all nine dots with four straight lines, without taking your pencil off the paper?



You can not go over any line twice

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Square numbers

You will need some digit cards made from card or the back of a food packet.

Use the digit cards only once. How many different square numbers can you make? This is an ideal problem for upper KS 2.

Square numbers

You will need the following digit cards.



Using the cards only once, how many square numbers can you make?

How many ways can you find?
What is the largest square number you can make?
Can you find 4 or 5 square numbers using the digit cards?

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Websites & publications (updated 16th April 2020)

New this week

Twitter

New to this list Anna Williams [@AWillia49259812](https://twitter.com/AWillia49259812) Mini Maths ideas and video.

New to this list [7puzzle](#) a few puzzles posted here. Website is better.

New to this list [Rising Stars](#) book company

Websites

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

New to this list [Rising Stars](#) book company. Some free activities online

New to this list [BBC bitesize](#) complete BBC maths listing

New to this list [Primary Games Arena](#) Online maths games

New to this list [STEM](#) resource packages for teachers

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

[Maths on Toast](#) Teachers page

[Maths on Toast](#) Parents page

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

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

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

[Cool Math](#) online maths dictionary

[Maths is Fun](#) online maths dictionary

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

[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.

[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.