Year 3 and Year 4 Maths ideas

Key things to practice at home:

- Telling the time
- 12 hour and 24 hour time use a radio or tv times or tv schedule
- Shopping use of money
- Times tables times tables rockstars

Useful Weblinks

- Corbett Maths videos and tasks, you can choose a topic, watch a video and then do some questions https://corbettmaths.com
- Topmarks have some free maths games to explore www.topmarks.co.uk
- Mathsframe have some free maths games and activities you can try including a version of the multiplication check https://mathsframe.co.uk
- Arcademic Skills builders have games to support practice of the 4 rules <u>www.arcademics.com</u>
- Mathplayground mix of free games www.mathplayground.com
- My Mini Maths video tutorials and activities https://myminimaths.co.uk (year 3 and year 4), there is also an area for building up skills in times tables



Games with dice and counters

Game 1: Shut the Box – play in pairs, teams, on own.

You need the numbers 1 to 15 and 3 dice.

Write the numbers on a piece of paper. Roll 3 dice, look at the numbers on the dice e.g. If you roll a 2, 3 and 6 you can cross off:

2, 3 and 6

11 (adding all 3 together)

5 and 6 (added 2+3 and 6 on its own), 9 and 2, 8 and 3

4 and 3 (6-2 and 3) any differences

Keep going until you can no longer go.

Game 2: Totals

Roll 4 or 5 dice and add them altogether – can you make all the totals to 30?

How many different ways can you make the total of 12? 22? 30?

Game 3: Multiplication facts

Roll 2 dice together and multiply them to practice your tables

Roll 3 dice together and multiply them (Y4 only)



Games with playing cards

Y3 – practice 2, 5,10,3,4,8,6

Y4 - all tables

Game 1: Queen is 12

Choose a times table you need to practice. You need a set of cards Ace to Queen. (Ace = 1, Jack = 11, Queen = 12). Mix up the cards, turn over the cards one at a time and write down the multiplication sentences, the division sentences and the answers to all 4 number sentences.

Game 2: 4 rules

You need some playing cards 1-9

Y3: Choose 3 different cards

Y4: Choose 4 different cards

Choose your playing cards, make all the 3 or 4 digit numbers that you can.

Then make 6 different totals using these numbers.

Make 6 different differences using these numbers.

Game 3: Largest and smallest

Choose a times table you need to practice (3,4,5,6,7,8,9)

Make a 2 digit number and multiply it by a single digit. Do this 5 times. Which had the largest answer? Smallest?

Why?

Make a 2 or 3 digit number and divide it by 2 – what do you notice?

What if you divide a number by 5?

Game 4: Missing subtraction (you could use playing cards as the numbers)

You have the numbers 0-9 but don't have to use them all. How many solutions can you find?



Game 5: Make the numbers



Choose 5 different single digit numbers and use them to make one 3 digit number and one two digit number where the difference between the 2 numbers is:

As small as possible

As large as possible

Even

Odd



Game 1: Fraction domino sort

Pick out 12 different dominoes. Use them as fractions.

Sort them into sets fractions larger/smaller than ½.

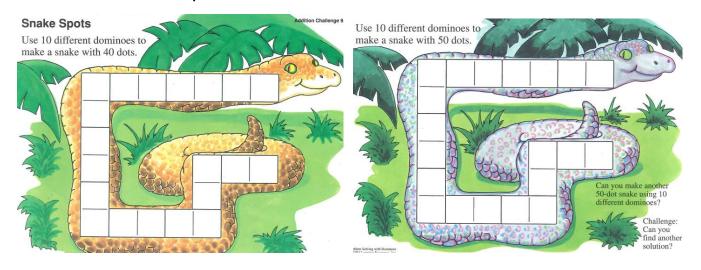
How many fractions can you find with an odd denominator? And odd numerator?

Game 2: Fraction add and subtract

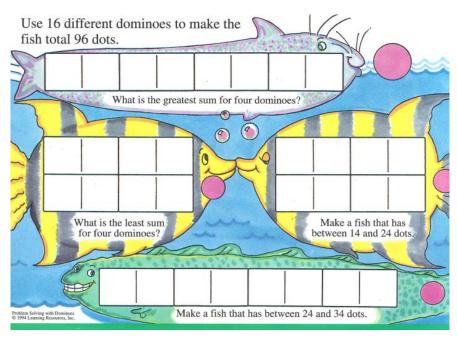
Choose 2 fractions and make them into fractions. Find the total and the difference.

Do this 4 or 5 times.

Game 3: Snake Domino card puzzles



Game 4: Fishy puzzle





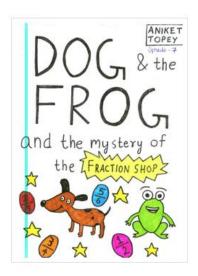
Investigate 8 puzzles

- Using scrabble tiles how many words can you make 8 letters long? What is the total of the word?
- Can you find 8 countries with the largest population?
- Can you find constellations with 8 stars in them and draw them?
- Using matchsticks or drawing lines what is the largest Roman Numeral you can make with 8 matchsticks or lines?
- Can you make a picture with 8 lines some parallel and some perpendicular?
- Can you make up a keep fit routine with 8 different exercise and teach it to someone else?
- If you are 8 years old how many days, weeks, moths is that?
- Can you make a design using Octagons?
- Explore the internet to find some facts about the number 8.

Maths story competition

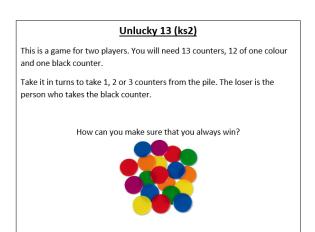
Why not have a read of some of the stories on www.mathsthroughstories.org

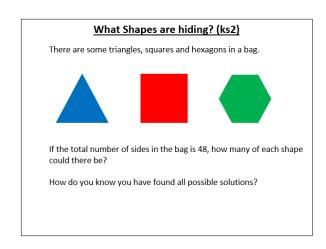




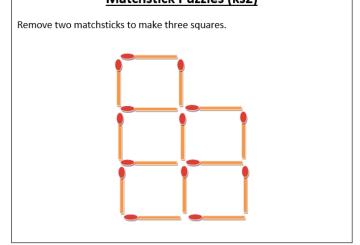
Then have a go at writing one of your own....

Other puzzles to try





Matchstick Puzzles (ks2)



sum mistake here . . .

Take a look at this 'sum':

$$93 + 14 = 57$$

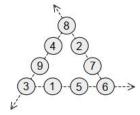
As you can see, it's completely wrong! But if you rearrange the digits, you can make a sum which is correct:

$$54 + 19 = 73$$

Now look at the four 'sums' beneath. For each of them, you have to find a way of rearranging the digits to make the sum work:

four in a row

Sadie has nine counters with the numerals $1, 2, 3 \dots 9$ on them. She arranges her counters in a large triangle, like this, with four counters along each side:



When she adds up the numbers along one side of the triangle she gets 23; the totals along the other two sides turn out to be 15 and 24. Check this for yourself!

Can you find a way of arranging the nine counters so that the total along each side of the triangle is 17?

odd totals

- a There are three different ways of adding four odd numbers to get 10, for example 1 + 1 + 3 + 5.
 What are the other two ways?
- Find all the ways of adding eight odd numbers together to get 20.
- c How many ways are there of getting 15 by adding six odd numbers?

counter move



First of all, get 6 counters of the same kind and arrange them in a shape like the one above. Can you find a way of moving just three of the coins so that you end up with the shape beneath?



2-digit numbers

- a Write down all the 2-digit numbers where one digit is 8 more than the other; how many are there?
- Now write down all the 2-digit numbers where one digit is 7 more than the other; how many are there this time ?
- c What happens with 2-digit numbers where the digits differ by 6 ?