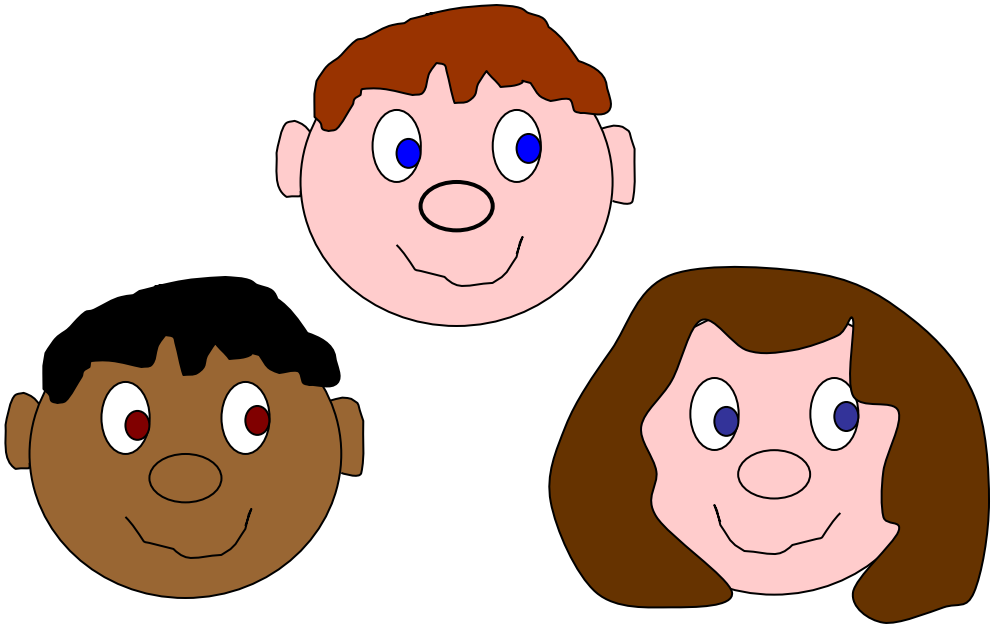
Maths at home

Activities for KS2



Supermarket

Look at the special offers at supermarkets is it better value for money to buy the larger quantity packet or the smaller one on offer? The multi-pack or individual?

Look at the adverts for Asda / Tesco have a price list for each ask them to work out cost. Which is cheaper?

1/3 has been taken off the price, how much is it now?

Look at the packaging. What is the volume of each box? (height x width x depth). How much of the packaging is wasted?

Use the net of the packaging, make a packet twice the size, half the size.

Order the receipt from cheapest to largest.

Catalogues

Work out prices of Christmas / Birthday wish lists. Can Father Christmas afford this?!

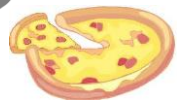
Which catalogue is cheaper for each item? Add shop to the list.

What would happen if there was a ½ price sale or 25% off? How much would it cost now?

You have £20 birthday money which different items could you buy with it? How is it best spent?

Cut pictures out of comics or magazines and make paper frames for them. Measure each length accurately and calculate the total perimeter.

Menus



Use takeaway menus to construct different meal combinations for a fixed price e.g. £10.00

Calculate change: estimate total first.

Look at special offers work out savings – set meals, buy one get one half price. How much do you save? Which one is the best value?

Weight

How much was your baby weight? Can you find a combination of packets from the cupboard to make your baby weight?

Recipes

Estimate the cost of the recipe, work out how much of each ingredient will be need to be bought and use the prices from supermarkets to work out the cost.

Which shop is cheaper to buy the ingredients?

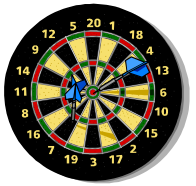
Alter the recipe for a different number of people or a different quantity and adjust cost.

Use scales and work out how much each interval on the scales is worth.

Make fruit smoothies. Make 500ml, how much of each fruit should be used? Work out different combinations, which will taste better?

How many egg cups will fill the bottle – estimate then try.

Sport



Football league tables

-Take out total points, children to work out how many points each team have.

-Arrange teams alphabetically and then work out point differences.

-calculate the total amount of points of all teams beginning with a particular letter or in a particular region e.g. south east. Compare totals and work out differences.

- look at fantasy football players put together team using decimals

Darts, Snooker and Pool

Great for addition, subtraction and multiplication.

Ask children to keep the running score.

Ten pin bowling

Keeping scores. Working out highest, lowest score possible half way through a game.

Cricket

Work out the batting averages for players.

What would the score if they score a 6 now?

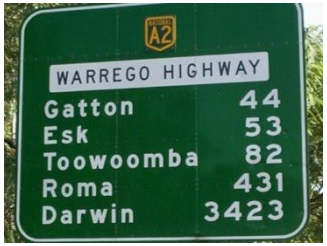
Estimate crowd sizes.

Travel

Look at a distance chart from a map – questions about how far from – to – via.

Order numbers on a number plate. Add the numbers on a number plate together, which is largest? Smallest? What is the difference?

Look at road sign – if you have travelled 19 miles, how far is it to each place now? If you are travelling at 70 mph how long will it take?



Car bingo:

First person to see a circle, cylinder, 3 digit number, an even number.

Time

Read times and show on an analogue clock. Convert from 24 hour to 12 hour and vice versa.
What time will we need to leave to get there on time?
How many days until Christmas / birthday?
How many months /days / weeks old are we?

A minute

How many times can you … in one minute?

- Star jumps
- Say tongue twister
- Write your name
- Click your fingers

T.V. schedule

Calculate the duration of different programmes. Find the total duration of different types of programmes on one channel e.g. news, and compare with different channels.

Work out what you can watch with given TV hours for the week.

Timetables

Create a timetable to work out weekly activities.

Use train / bus timetables to work out journeys.

Cinema / Swimming pool timetables.

Money

A family day out

-Use price lists for theme parks, cinema, swimming pools.

Children to work out the price for their family to go.

Look at special vouchers – get child in free with paying adult. How much do you save?

Holidays

Work out prices for hotel / flights. Convert money to $ or €.

Bank accounts

If you get £5 pocket money each week and save it in a bank account, how much money will you have in your bank account at the end of a year?

Work out how much interest the bank account will get each month.

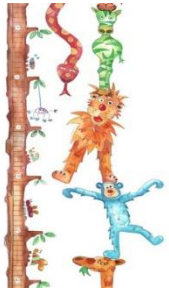
How much many weeks will you need to save pocket money to buy ….? Could keep a chart and colour in squares for each £1 or 10p saved.

Stock market

Create a fantasy share portfolio. Read the share prices paying particular attention to place value with decimals. Calculate fluctuations and changing value of portfolio. Work out weekly average.

Houses

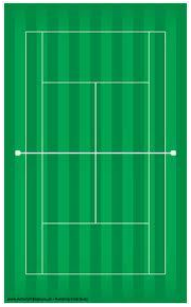
Height / length

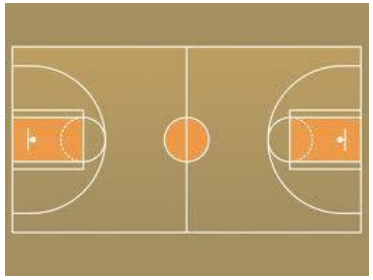


Use height charts and work out growth over time. Measure families hand spans / foot sizes.

Use an estate agents brochure. Children to cut our house prices and order them, work out differences between house prices, add £10,000 for an extra bedroom, how much is the house now?

Shapes



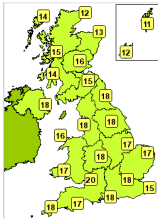


How many rectangles can you find on a tennis court? How many shapes can you find on a basketball court?

Look at a picture of the playground / round the house label all the shapes you can find.

Draw a bird's eye plan of bedroom / garden vegetable plot.

Weather map



Look at the temperatures in different parts of the World. Calculate differences in temperature especially when there are negative values.

Time zones

What is the time in Australia?

When can we call our relatives in Canada when they are awake?

TV / computer games

Countdown

Can you use 4 5 10 and 7 to make a number as close to 80 as you can?

The Biggest Loser

Work out the weight loss before the scales show the answer.

Strictly Come Dancing / Dancing on Ice

Work out total scores, who is winning before the TV.

Sports

Use a range of sports to work out scores.

Computer Games

Use scores – how many more than last score? Difference in family scores.

Games

Sudoku

Top trumps

Monopoly

Yahtzee

Battleships

Snakes and Ladders – play backwards to help counting down.

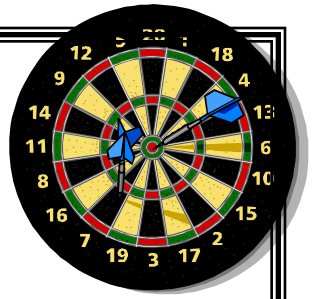
Bingo

Dice game

Card games – 21, cribbage, bridge, patience.

Dominoes

Dice Darts



Addition

Decide on target 101 or 301.

Each person takes it in turn to throw two dice, add the faces together and record the score.

Keep a running total. First to reach 101/301 is the winner. NB They must score exactly 101/301 so they may choose to use just one die as they get close.

Subtraction

Decide on starting number 101 or 301.

Each person takes it in turn to throw two dice, add the faces together and subtract the score.

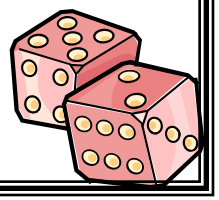
Keep a running total. First to reach 0 is the winner. NB They must score exactly 0 so they may choose to use just one die as they get close.

Multiplication

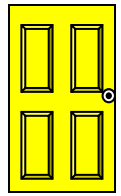
Decide on starting number 301 or 501.

Each person takes it in turn to throw two dice, multiply the faces together and subtract the score.

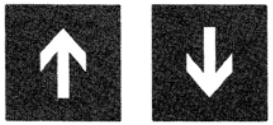
Keep a running total. First to reach 0 is the winner. NB They must score exactly 0 so they may choose to use just one die as they get close.



Number Hunt



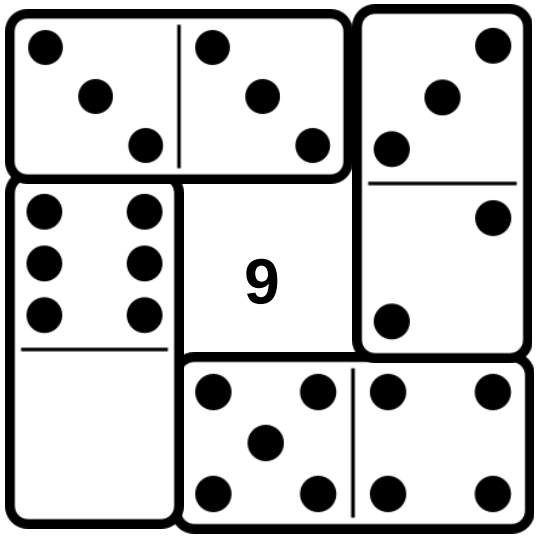
Look for numbers in the environment e.g. door numbers, road signs, bus numbers, sports shirts, number plates, advertising – phone numbers. Order numbers according to their size. Find numbers that meet different criteria e.g. greater than (>) or less than (<) a given number, multiples of … or multiples of … and … Find totals. Find differences. Choose and use the most appropriate method of calculation e.g. mentally, pencil and paper, calculator. Race another person to a given target number on a walk or a car journey.



Shape Hunt

Look for, name and describe the properties of shapes (2-D and 3-D) around the house and/or in the environment. Talk about specific properties such as number of sides (2-D), number and shape of faces (3-D), lines of symmetry in 2-D shapes, angles and their types (2-D) – right angle 90°, acute - less than 90°, obtuse – greater than 90°. Make it a competition. Challenge children to spot and sketch shapes in a given time frame and then award points according to the number of sides for 2-D shapes e.g. triangle = 3 points or number of faces for 3-D shapes e.g. cube = 6 points.

Domino Games



Can you make hollow squares for the numbers 5, 6, 7, 8, 10 etc?

Threes and Fives - You play dominoes in the usual way but you score points when the dominoes at the ends of the chain add up to a multiple of 5 or a multiple of 3. Divide the total on the ends by 5 or 3 and add the answer to the player's score. If the end total is divisible by both 5 and 3 then you score both, so for the end total of 15 you score 8 points. You also score 10 points for being the first to finish, plus one point for every domino held by another player, but you might not be the winner even if you do finish first.

In the following example the double 5 starts, scoring 2 points. Then the (0, 5) domino scores 1 point because the ends add up to 5. Then the (4,0) domino makes the ends add up to 9 so it scores 3 points. Finally the (5,6) domino makes the end total 10 scoring 2 points.