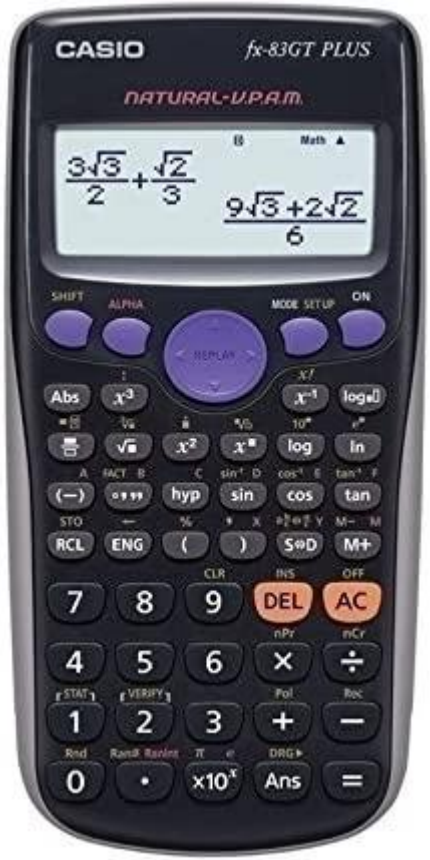
Welcome to Maths at Sweyne Park!

Hello! As you'll be joining us at Sweyne Park in September, we thought you may like to do some maths to prepare yourself! Please explore these maths activities, problems and investigations. Everything is hyperlinked so just click on the text if it is something you would like to try.



Please may we ask that you get a Casio FX series calculator for September? It doesn't matter which model, but if you can get the FX83 GT-Plus, that would be best.

We look forward to seeing you then!

Times Tables

Times tables are really important and needed in lots of different areas in maths. If you struggle with your times tables, it would be a good idea to practise them.

Here are some websites that could help you practice:

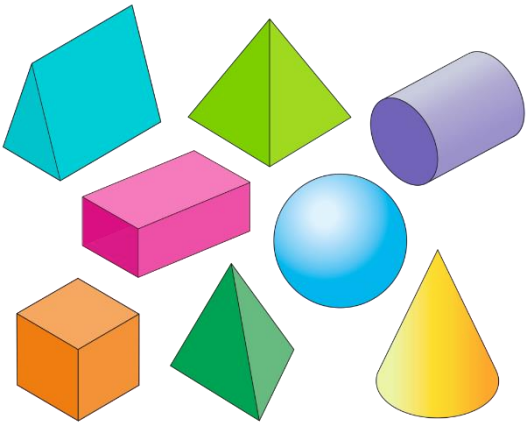
- Timestables.co.uk
- Times tables games
- Hit the Button
- Multiplication and division games
- Factors and multiples game

LINKS TO MULTIPLICATION AND DIVISION – WRITTEN METHODS

- ***Multiplication grid***
- ***Traditional Column method for multiplication***

For you: What makes a good mathematician?

For your parents/carers: Nurturing successful mathematicians



Problem Solving

Here are some activities you could try. Please note that there are links to "getting started" and the "solution" in the top left of the screen.

- Prompt Cards
- Maze 100
- Money Bags
- Highest and Lowest (Investigation)
- Take Three Numbers (Investigation)

If you found those a bit difficult, here are some easier ones!

- Count the Crayons
- Heads and Feet
- Stone Age Counting
- How odd (Investigation)
- What Could It Be? (Investigation)

Problem Solving – A Challenge!

Being Curious	Being Resourceful	Being Collaborative	Being Resilient
A Chance to Win?	Two and Two	Connect Three	Shopping Basket
Think of Two Numbers	Reversals	What's it Worth?	Tower of Hanoi
Cola Can	Triangles to Tetrahedra	Constructing Triangles	Nine Colours
Litov's Mean Value Theorem	Wipe Out	Olympic Records	In A Box
Multiples Sudoku			

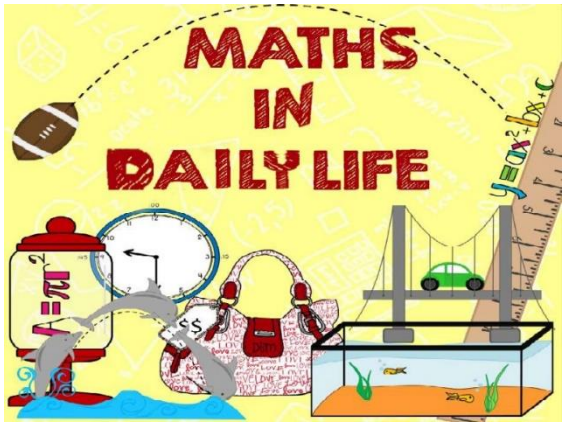
More Problems

Please note that there are links to “getting started” and the “solution” in the top left of the screen.

- From Exploration to Consolidation
- From Competitive to Collaborative
- From Random to Systematic
- From Introduction to Deeper Understanding

Things to do at home

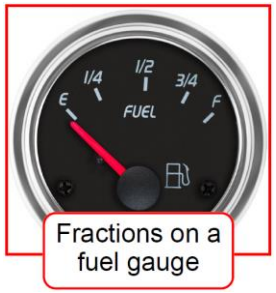
Maths is used all the time in the real world, sometimes you won't even realise!

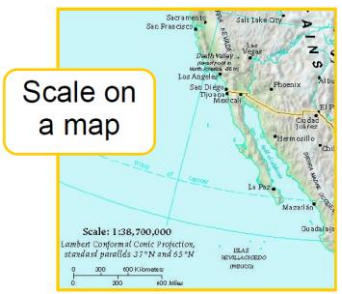


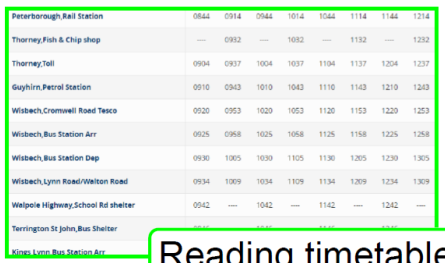
Here are some examples:

- Multiplying up a recipe
- Calculating cooking times for a chicken
- Reading electric meters

The next few slides have some questions that relate to how you might use maths at home.







Multiplying up a recipe

Peter, the pumpkin eater, wanted to make two pies for a party. His mother, a professional pie maker, had a recipe for him to use. However, she always made 80 pies at a time. She used:

- 10 dozen eggs
- 27 litres of condensed milk
- 480 tablespoons of sugar
- 100 teaspoons of cinnamon
- 140 cups of pumpkin

Peter looked in the cupboard and found:

- 2 eggs
- 23 of a litre of condensed milk
- 15 tablespoons of sugar
- 112 teaspoons of cinnamon
- 4 cups of pumpkin

Did Peter have enough ingredients to make two pumpkin pies for the party or did he need to buy more?

SOLUTION

Multiplying up a recipe

This is a 750 ml bottle of concentrated orange squash.

It is enough to make fifteen 250 ml glasses of diluted orange drink.

How much water is needed to make 10 litres of this drink?

SOLUTION

Multiplying up a recipe

Cornflake Tart

Recipe: https://www.bbcgoodfood.com/recipes/easy-cornflake-tart

This recipe serves 10 people.

How much of each ingredient would you need for 5 people?

What about 35?

320g ready-rolled shortcrust pastry

plain flour, to dust

50g butter

125g golden syrup

25g light brown soft sugar

100g cornflakes

125g strawberry or raspberry jam

custard, to serve

Solution on next slide

Multiplying up a recipe

Cornflake Tart

Recipe:
https://www.bbcgoodfood.com/recipes/easy-cornflake-tart

This recipe serves 10 people.

How much of each ingredient would you need for 5 people?

What about 35?

For 5 people, half each ingredient:

- 160g ready-rolled shortcrust pastry
- plain flour, to dust
- 25g butter
- 60.25g golden syrup
- 12.5g light brown soft sugar
- 50g cornflakes
- 60.25g strawberry or raspberry jam
- custard, to serve

For 35 people, you could multiply the recipe above by 7, because 5 x 7 is 35:

- 1120g ready-rolled shortcrust pastry
- plain flour, to dust
- 175g butter
- 421.75g golden syrup
- 87.5g light brown soft sugar
- 350g cornflakes
- 421.75g strawberry or raspberry jam
- custard, to serve

Well done!

Well done for having a go at some of the problems here. Don't worry about September, all the staff at Sweyne Park are here to help you settle in.

A final reminder, please may we ask that you get a Casio FX series calculator for September? It doesn't matter which model, but if you can get the FX83 GT-Plus, that would be best.

We look forward to seeing you soon!