

How can I help my child with their maths learning at home?

A collection of ideas **by parents for parents** focused on helping children to apply their maths skills in the real world.

It is important that children recognise the many ways in which maths is relevant to the world around us. Otherwise they will struggle to see the purpose of what they are learning in lessons.

This is a collection of activities to support you with showing your children how maths is used in real life. We have also included some notes about how you can talk about the different operations (addition, subtraction, multiplication and division) whilst doing them.

Good luck with these activities – we would love to hear any feedback you may have once you have tried them.

	Shopping	
	Whenever you are shopping with your child, ask	
	them to help you add prices.	
	You could practise 'estimating' (by rounding to the	
	nearest £ before adding).	
	You could make a play shop at home, making prices	
	that are appropriate for your child's level, so that	
Addition	they can continue adding prices.	
	Practise adding the number of objects you have	
	bought, e.g. we have 4 bananas. We have bought 5	
	more. How many do we have now?	
	Work out change from increasingly larger amounts	
	as you pay for items.	
Subtraction		
Subtraction	When huving soveral of the same item multiply to	
	work out the total price e.g. 4 caps of soun is 4 x	
\sim	60n	
\sim	оор.	
Multiplication		
	Split the bill with someone – usually at a restaurant.	
	compare single packs to multipacks to decide which	
	is cheaper (multipacks need to be divided to work	
Division	out now much they cost per pack).	

Baking	
	Add weights as you prepare ingredients when
	baking.
Addition	
	Often subtraction is needed when pouring liquids
	e.g. when the recipe asks for 300ml of water, and
	you have to add 100ml first of all.
Subtraction	How much water will I have left when I have poured
Subtraction	out 100ml?
	Sometimes we need to double or triple the
	ingredients to feed more children. Ask your child to
X	help you to do this with each ingredient.
Multiplication	
	To feed fewer people, sometimes we need to work
•	out 1/2 or 1/3 of each ingredient.
-	
Division	

Time	
	Add time 'intervals', e.g. when planning a day out,
+	adding the time you will spend at different places.
-	Parking meter – if you paid for 3 hours at 2:30pm,
Addition	when do you need to return to the car?
	How much longer until? E.g. "It's 3:20pm now.
	How much longer until play time at 4 o'clock?"
Subtraction	
×	When watching television, how long does it take to watch 3 episodes?
Multiplication	
	"How many 10-minute episodes can I watch in my
•	30 minutes of screen time?"
Division	

DIY	
	Children love to 'help' us when we do DIY. Let them
	help you to measure objects, then add distances to
-	work out how long things will be when pushed
-	together.
Addition	
	"How much do I need to cut off so that I only have
	50cm left?"
Subtraction	
	Work out the area of a wall when we are working
	out which tins of paint or rolls of wallpaper we need
X	to buy.
Multiplication	
	When putting up shelves in IKEA bookcases – if I
	want to space the shelves equally, how many holes
	do I need to leave between each?
Division	If my wall is 30m ² , how many tins of paint/rolls of
	wallpaper do I need to buy?

Lego	
	Encourage your child to count the bumps on the top
	of Lego pieces and add them to see how many they
-	have altogether as they build with more and more
•	pieces.
Addition	
	Lego bricks are arranged in arrays (see below) e.g.
	there are 4 rows of bumps, with 2 bumps in each
X	row. 4 x 2 = 8 bumps in total.
•	
Multiplication	
	Lego can be used to demonstrate fractions (which
	are related to division). Try Googling 'Lego fractions'
	for ideas.
Division	

Playing board games	
	Lots of board games are great for simple adding –
	e.g. snakes and ladders. You are currently on 54
-	and roll a 5. Where do you land? Some board
•	games contain two dice which need to be added.
Addition	
	Lots of simple games involve subtraction e.g. Uno
	(counting down by 1 until you have no cards left)
	and Monopoly, which involves lots of subtraction
	as you buy things or pay for services.
Subtraction	
	When sharing cards or pieces between people.
•	
	Which space is 1/2 way round the board?
-	
Division	

Playing darts	
	Darts uses lots of maths! You add when combining
	the total you have scored with your 3 darts.
T	
Addition	
	When you play darts, you start on 501 points and
	subtract your score each turn until you reach 0.
	You could start on a smaller number for younger
	children.
Subtraction	
	When you hit a 'double' or 'treble', you need to
	multiply the number by 2 or 3.
X	
•••	
Multiplication	

Seeing maths everywhere!	
	Arrays are everywhere! Egg boxes, muffin trays, tiled
	floors, ceiling tiles, Lego bricks and so on. Just count
	the number of rows and the number of columns,
Arrays	then multiply together to work out the total.
	To use these for division, you need to count the total number then divide by the number of rows to work out columns or vice-versa e.g. when using a normal egg box, there are 6 eggs with 2 rows and 3 columns, so $6 \div 3 = 2$ and $6 \div 2 = 3$.
Shapes	Look out for shapes around you everywhere you go.
	Name them; count their sides and corners; look for
	parallel and perpendicular lines and discuss the angles.
Telling the time	It is really important (and difficult) for children to
	learn to tell the time, so take the opportunity
	whenever it arises to practise reading clocks and watches together.