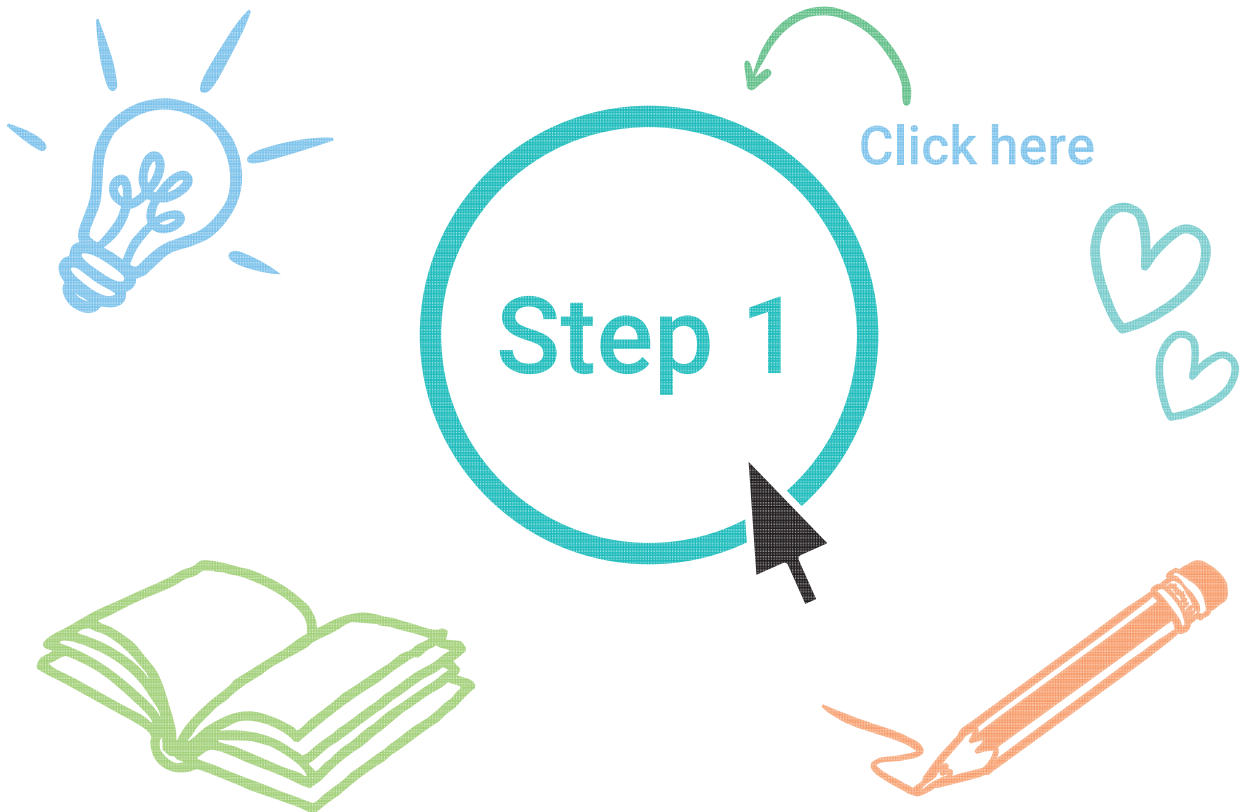


Year 1 Multiplication and Division: A Step-by-Step Guide for Parents

This step-by-step explanation to learning multiplication and division can help you support your child's learning at home. The subject is broken down into manageable chunks, providing you with a simple guide to follow when exploring multiplication and division. Whether your child is learning to divide objects into equal-sized groups or how to multiply by repeatedly adding, there will be a step in this guide for your child.

Within **this area of the website**, you will find a selection of resources intended to help your child learn about each step of this guide. Each step also contains a keyword or phrase that you can use to search the Twinkl site for more resources and activities, designed to support your child in achieving that stage. Simply type the keyword or phrase into the search bar and press enter to explore together.

We hope you find the information on our website and resources useful. The contents of this resource are for general, informational purposes only. This guide is intended to offer parents general guidance on what subject areas tend to be covered in their child's year group and where they could support their children at home. However, please be aware that every child is different and information can quickly become out of date. There are some subject areas that we have intentionally not covered due to the nature of how they are taught or because a trained professional needs to teach these areas. We try to ensure that the information in our resources is correct but every school teaches the national curriculum in its own way. If you would like further guidance or are unsure in any way, we recommend that you speak to your child's teacher or another suitably qualified professional.

Multiplication and Division

What Do Children Learn in Multiplication and Division Work in Year 1?

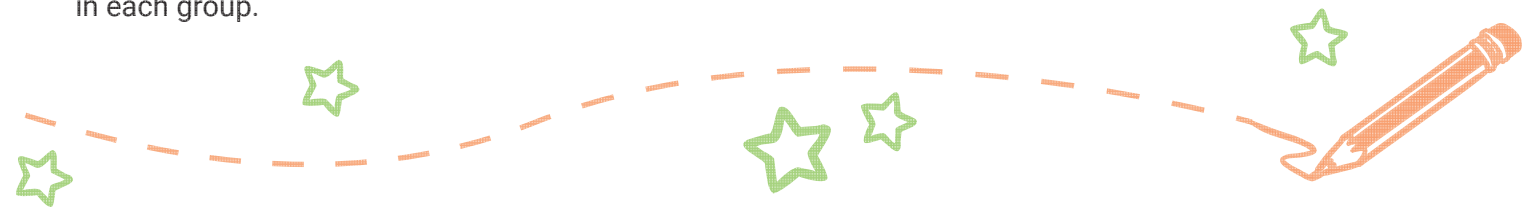
During key stage 1, there is a strong emphasis on addition and subtraction as part of number work. However, as children are still practising counting, it is helpful for children to learn that multiplication is repeated addition. For example, 2×5 is the same as 'two lots of five' or $5 + 5$. This is usually taught in a visual way. Children are also encouraged to solve one-step word problems. For example, understanding that two bags, each containing five sweets, means there are ten sweets altogether.

Division is also taught in a visual way - being given a fixed number of objects and dividing them up so there is an equal number in each group. For example, if a child were given nine sweets and three bags, they should be able to discover that nine sweets, divided equally into three bags, gives three sweets in each bag.

What Are Arrays in Multiplication and Division?

Arrays are a way of helping children to visualise what is happening in multiplication and division. For example, to teach children that $2 \times 5 = 10$, you might place a group of 10 counters in two rows, each containing five counters. By counting the counters, your child will learn that 'two lots of five' totals '10'. As they get older, they will learn that this can be written as $2 \times 5 = 10$ or $5 \times 2 = 10$.

Using the same array, a child can learn that those 10 counters, if divided up into two groups, give five counters in each group.



As well as using the resources in this category and the keyword searches to help your child with statistics and data handling, below are a few ideas for games and activities to help your child make progress in this area.

Sharing Is Kind

Using bags of sweets, marbles or pom-poms, encourage your child to share out the objects so that there is an equal number in each container. Make sure that the number of objects you supply is divisible by the number of containers. For example, 27 pom-poms into three containers will give nine pom-poms in each container. Don't be tempted to force your child to write down the results from this game; it is just there to develop the idea of sharing into equal groups. Concentrate instead in using vocabulary like 'share', 'divide' and 'separate' so that your child gains a conceptual understanding of division.

Roll That Dice

In key stage 1 maths, children mostly practise multiplying by 2, 5 and 10. Once your child has started this journey, get a pair of dice and keep one as normal. On the second dice, use sticky labels to make the sides read 2, 5 and 10 rather than the usual numbers from one to six. This will help your child to practise the answer to the tables they need to learn.

Twinkl TV

Try counting in 2s, 5s and 10s and learn how those numbers look using Twinkl TV. Follow this link to watch our programme for **counting in 2s, 5s and 10**.

Step 1

Counting in 2s, 5s and 10s

Children in year 1 are usually able to count, at least, up to 20. Growing their understanding of counting is a helpful way to prepare them for work in multiplication and times tables. Use our helpful **Twinkl TV Counting in 2s, 5s and 10s video** to start the learning journey with your child and then move onto our colourful resource for this step. Can your child spot which numbers are missing when counting in 2s, 5s and 10s? If not, keep enjoying the video and keep practising counting together. Concentrate on 10s first, then 5s and finally 2s.

Step 2

At the Market

To be able to work on this step, your child must have practised Step 1 and feel confident with it. This step reinforces the idea of counting in 2s, 5s and 10s and uses the context of a market. Read through the information and questions before starting. Then, introduce the activity to your child as a story, e.g. 'I went to the market...'. Gradually, get your child to start completing the answers for themselves once they're confident working with you.

Step 3

Repeated Addition

This handy **Multiplication Using Repeated Addition PowerPoint** will help to guide you and your child through multiplication by the method of repeated addition. It is a great idea to have some jars of pom-poms, counters, marbles or small construction bricks around to mimic the images and layout of objects on the screen. All the instructions to read and share are on the slides. You are simply trying to help your child to understand that, for example, 4 lots of 2 = 8 because that's $2 + 2 + 2 + 2$, and if we count up those 2s, we end up with 8.

Step 4

Division

When we introduce division to children, we also talk about 'sharing into groups' and 'separating into equal groups' as children understand about making things fair. Ask your child to share ten grapes between the two of you so it is fair, or ten sweets between five people. Encouraging them to give one to each person, then the second and so on, as if dealing out cards in a card game works well to support understanding. Then, work through the PowerPoint together. Don't formalise division yet as it's the trickiest of the four operations for children to grasp and keeping it light helps children to feel confident with the ideas.

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Twinkl Book Club is our book subscription service. Enjoy our original works of fiction in beautiful printed form, delivered to you each half-term and yours to keep!

Twinkl Boost is a range of intervention resources, created to support and lift learning with children at every level. These include our easy-to-use SATs and Phonics Screening resources.



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Imagine resources are designed to help your children to think creatively, question and imagine. Every week, a new topic consisting of five photos, each with related activities, is created.

Twinkl Originals are engaging stories written to inspire children from EYFS to KS2. Designed to encourage a love of reading and help curriculum-wide learning through accompanying resources.



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KIDS' TV

Twinkl Kids' TV is our wonderful YouTube channel dedicated to fun and informative video-style resources full of new and creative activities you can try at home!