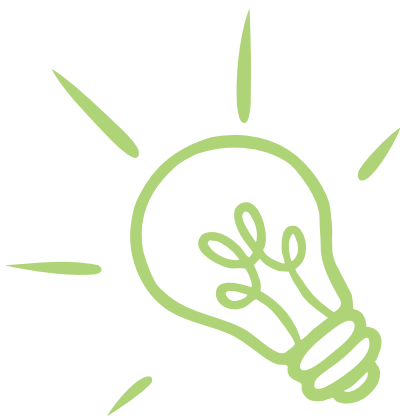


Year 3 Multiplication and Division: A Step-by-Step Guide for Parents

This step-by-step explanation for year 3 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, whether your child is at the early stages of learning their simple times tables or whether they're already multiplying different combinations of numbers in their head. Whether your child is only at the early stages of year 3 their simple times tables, or whether they're already multiplying different combinations of numbers in their head. Either way, there will be a suitable step 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.

multiplication word problems



Click here



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 However, please be aware that every child is different and information can quickly become out of date.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 about Multiplication in Year 3?

By year 3, most children have started to master the easier times tables, including 2s, 5s and 10s. They often build on this in year 3 by learning the 3s, 4s and 8s. Teachers often introduce multiplying double digit numbers by single digit numbers and show children how to set down calculations in columns, rather than just across the page. Children are expected to be able to perform some simple multiplication calculations mentally and some using a formal written down method. One method can be used as a check for the other. Teachers tend to choose numbers carefully at this early stage. For example, multiplying 25×2 can be done by saying ' 2×20 is 40 and 2×5 is 10, so that's 50 in total', which can then be checked by a simple written method; we'll show you how in our helpful steps in this guide. Children will also be likely to try simple word problems and missing number problems which form the basics of the algebra they'll explore at the top end of primary school.

Why Do Children Learn 3, 4 and 8 Times Tables before 6 and 7?

The English national curriculum encourages teachers to teach mental skills alongside written ones. When tables were learnt off by heart, they were often taught in order, starting with 2s, then 3s and so on. It is now common to start with 2s, 5s and 10s which are easy to count in and to spot the patterns. 3s have an odd/even pattern while the $4\times$ and $8\times$ tables involve repeated doubling as a mental check that your answer is right. Therefore, they link to the $2\times$ table that children have usually learnt by this stage.

Why Should Children Play Times Tables Games?

Children in primary school need to learn their times tables. However, they also need to be able to quickly recall random patterns with tables, which can be tricky to remember. Games with dice, dominoes and board games help to present children with tables in an unpredictable order which may help them feel less anxious about the presentation of random tables in mental arithmetic tests or in oral parts of maths lessons at school.

As well as using the resources in this category and the keyword searches to help your child with multiplication and division, below are a few ideas for games and activities to help your child practise multiplication and division at home.

Play Games

This pack of **free printable games** includes a wide range of board games, loop games and dominoes. Loop games and dominoes are great to encourage your child to play independently and the board "games make learning times tables a fun friends or family event.



Times Tables Posters

Why not display these **colourful posters** in your child's room to help them remember the patterns of the answers? Build up the number of posters as your child tackles more times tables.



Times Tables TV

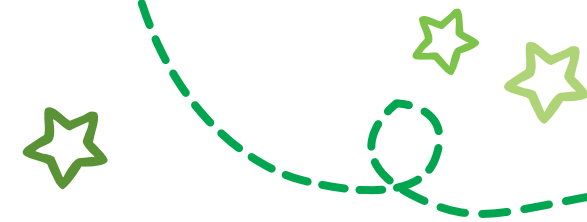
This fun, **animated video** from Twinkl pulls together lots of different ideas and strategies. You could watch this with your child to help them develop strategies for learning their times tables.



Step 1

Year 3 Multiplication in Simple Steps

This superb pack supports you, as a parent, and your child to bridge the gap between multiplication ($2\times$, $5\times$ and $10\times$) in key stage 1 and key stage 2 multiplication using arrays. Arrays are rows of pictures that help children spot the patterns that happen in multiplication. This PowerPoint can be displayed on a screen and it will explain how multiplication is taught in year 3, with an emphasis on $3\times$, $4\times$ and $8\times$ tables. Work with one of the times tables only; the PowerPoint will let you access the lesson for this and then follow up with the differentiated worksheet, beginning with the one-star version. Do print these off for your child, as lots of children like to count up and mark off the objects as they check their work. At the next session, try the two-star activity and so on. Some children may not be ready for the higher level sheets and at the year 3 stage, be prepared to accept progress rather than insisting your child completes every task



Multiplication Triangles

Once your child has practised $3\times$, $4\times$ and $8\times$ tables with you at Step 1, it's time for them to be independent. Showing your child calculations in different combinations and formats helps them to grow in confidence with maths. Some of the triangles use $2\times$, $5\times$ and $10\times$ tables which your child will already have met. If not, go back to our **Year 2 Multiplication and Division Step-by-Step Guide** for further support.

Step 2

Step 3

Word Problems

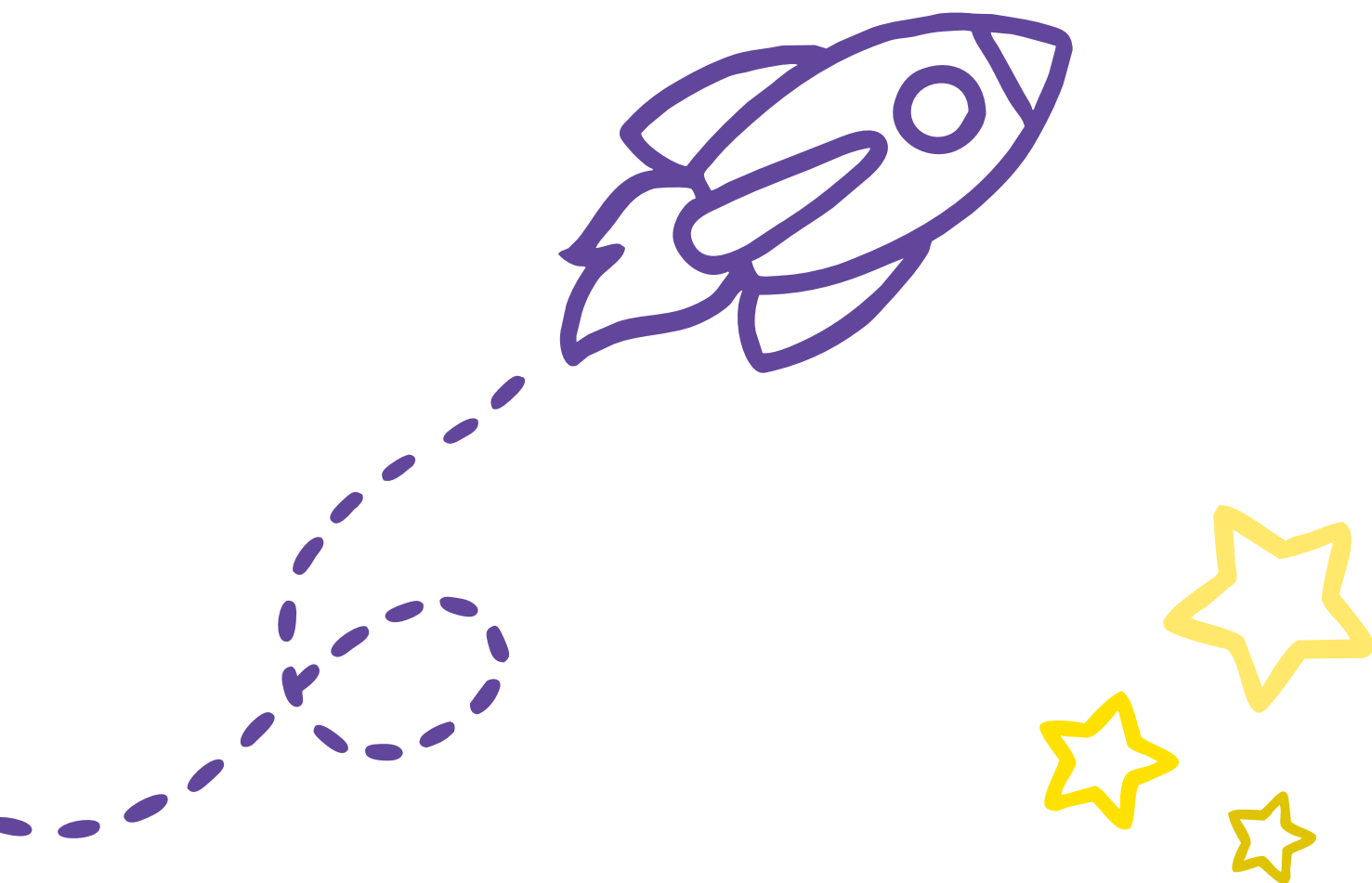
These simple word problems involve only the tables your child has been working on. Your child will need to learn to spot whether it is multiplication (answer bigger than both numbers in the question) or division (one number in the question will be bigger than the answer). If your child needs support, why not print out one of our **free multiplication squares**? Then, your child can start the problems by looking up the answers, then they can focus on interpreting the question.



Step 4

Multiplication and Division Warm-Up

This colourful PowerPoint is the ideal review for your child when they've mastered the multiplication and division work for year 3. It contains calculations, simple word problems and missing number calculations in a colourful format that's easy to display on a computer or tablet screen.



Explore and Discover More

Twinkl Go! is a digital platform, hosting interactive content such as videos, games, audiobooks and more. Twinkl Go! enables digital content to be streamed to your computer or mobile device.



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Book Club

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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Boost



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imagine

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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ORIGINALS



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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!