# Y4 - Multiplication and Division

The focus of this home learning is **multiplication and division**. By the end of Year 4, children should have a fluent knowledge of all times tables, up to 12 x 12; they should be able to recall both the multiplication and division facts. Frequent practise of these at home will aid this. Children are expected to use their times table knowledge to support their mental computation of larger calculations too. For example, if I know that 21 ÷ 7 = 3, I also know that 210 ÷ 7 = 30. Children will be taught formal written methods of calculation for the multiplication of 2 or 3-digit numbers by a 1-digit number. Please see our calculation policy for more information about this. They will also learn efficient strategies for multiplying three 1-digit numbers together (e.g. 3 x 4 x 5) by deciding which is the most helpful order for them to do it in. In addition to this, children are taught the distributive law of multiplication. For example, 15 x 6 can be solved by doing (9 x 6) + (6 x 6) = 54 + 36 = 90, where 15 is partitioned into 9 and 6.

Activities & Games:

☆ Display the same multiplication in different ways, such as Cheerios to show arrays and stickers to show groups. Choose a times tables fact, (e.g. 6 x8 = 48) and then get creative! See if you can represent this calculation in a number of different ways - equal groups, arrays, a number line, repeated addition or another technique you feel comfortable with. Can you find something around the house that will help you? You could use pieces of paper, stickers, bottle tops, anything!
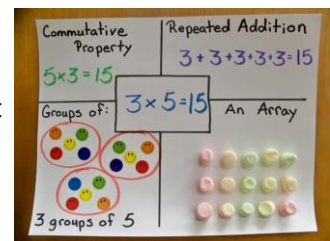

☆☆ Choose a times table that you find hard, and design and create an activity to help you get better at it. You could write a song/poem/rap or a story that includes all of the multiplication facts for that number. Perhaps you could display the facts around the house - on your bedroom door, or your bathroom mirror - so that you are seeing them all the time.
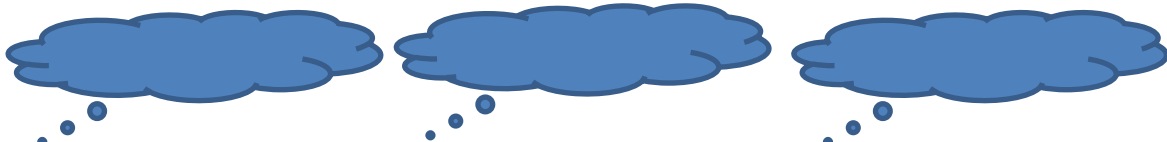
☆☆ [Build this multiplication table square](#)
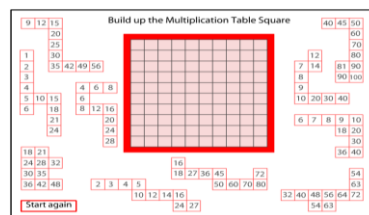
☆☆☆ These coloured shapes stand for eleven of the numbers from 0 to 12 . Each shape is a different number. Can you work out what they are from the multiplications below?
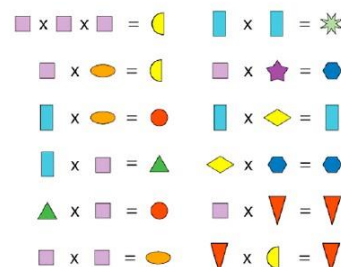
Maths

Going deeper...

This is a game you can play against an adult, and against the clock, using the 4 operations and various methods to solve calculations. Make a set of cards with the numbers 100, 50, 25 and 10 on. Then, on different coloured paper write the numbers 1-9. Lastly, roll a dice to make a 3 digit target number. Now you are ready to play. Choose two of the big numbered cards and three of the small numbered cards. How can you use those numbers and the 4 operations to get as close to the target number as possible? You can only use the number cards once but you may not need to use them all!

Here is an example from the real programme of Count Down on Channel 4

Wonderful websites

Multiple Frenzy

Hit the Button

Monty's Maths Wall

Snake

Division

Whilst it can be very tempting to encourage your child to have a go at the more challenging activities, it is far better to work with them at a level they feel confident with. Significant and regular practise of even the most basic skills outlined in this document will lead to a much deeper understanding and greater proficiency, and ultimately a much more pleasant 'homework' experience for you and your child!