

Fun activities to do at home

Mathletics

Your child has a login and password in the front of their reading journals. They can complete set weekly homework and play games against others in school or around the world.

99 Maths Club

Practice sheets to complete on the school website-under School Info tab- See if you and your child can increase your mental arithmetic by competing against each other.

Times Tables 1

Practise the 3x, 4x and 5x tables. Say them forwards and backwards.

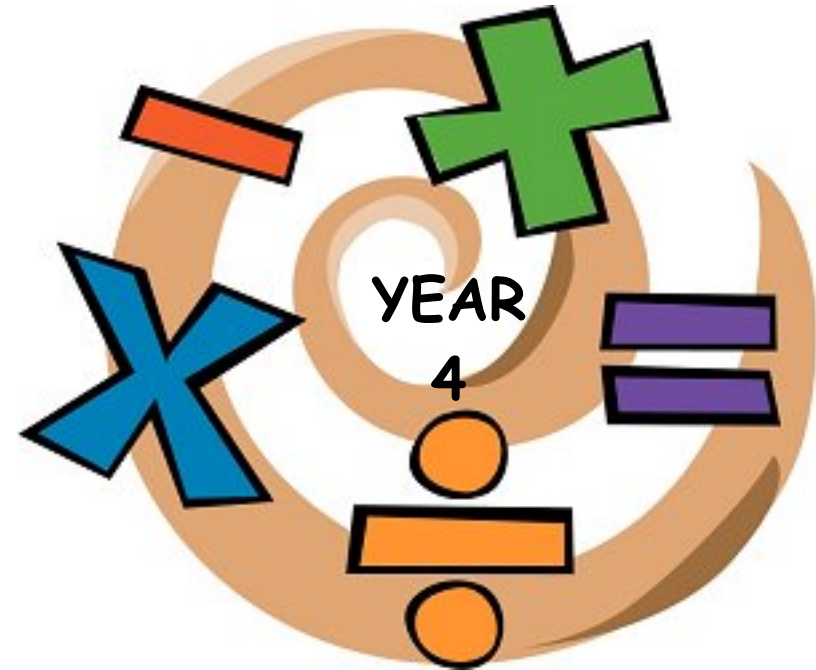
Ask your child questions like:

What are five threes?	What is 15 divided by 5?
Seven times three?	How many threes in 21?

Times Tables 2

- ◆ Put some dominoes face down.
- ◆ Each choose a domino.
- ◆ Multiply the two numbers the domino.
- ◆ Whoever has the biggest answer keeps the two dominoes.
- ◆ The winner is the person with the most dominoes when they have all been used.

Maths at Pensans in Year 4



A booklet for parents

This booklet provides information on the maths taught in Year 4 through mastery, including methods of calculation. It also includes End of Year expectations for children in Year 4, as well as ideas and activities to try at home.

National Curriculum Expectations at the end of Year 4

The new National Curriculum is divided into different aspects of maths:

Number and Place Value, Calculations, Fractions, Measurements/Geometry and Statistics.

By the end of Year 4, children will be expected to know their times tables up to 12×12 by heart. This means not only recalling them in order, but also being able to answer any times question at random and knowing related division facts. e.g. $6 \times 8 = 48$, they would also know that $8 \times 6 = 48$, that $48 \div 6 = 8$ and that $48 \div 8 = 6$. This will help them when solving larger problems and working with fractions.

Number and Place Value:

- Read, write and order numbers to 1,000,000 and know the value of each digit.
- Count forwards and backwards in steps of 10 up to 1,000,000.
- Interpret negative numbers, counting forwards and backwards in steps of 10.
- Round up to the nearest number including some decimals.

Calculations

Addition and subtraction

- Add and subtract whole numbers with more than 4 digits using column addition and subtraction.
- Add and subtract large increasingly large numbers mentally.
- Add and subtract when solving multi-step problems and explain methods.

Multiplication and division

- Identify multiples and common factors of numbers.
- Know the vocabulary of prime numbers and composite numbers (non-prime)
- Calculate prime numbers up to 100 and recall prime numbers to 19.
- Recognise square and cube numbers and know how to calculate them.

Fractions

- Compare and order fractions confidently.
- Identify and find equivalent fractions and represent these visually.
- Add and subtract fractions (that are multiples of the same number)
- Multiply proper fractions by whole numbers.
- Read and write decimal numbers as fractions.
- Round decimals to the nearest whole number.
- Read, write and order numbers with up to three decimal places.
- Write percentages as decimals and fractions.
- Solve problems by converting fractions to decimals.

Measurements and Geometry

- To convert between different units of measure e.g. kilometre and metre.
- Understand and know conversions between metric and imperial measurements.
- Measure and calculate the perimeter of simple shapes in centimetres and metres.
- Calculate and compare the area of rectangles.
- Estimate volume and capacity (e.g. by using 1cm^2 blocks to estimate)
- Solve problems involving converting units of time.
- Solve a range of problems involving measure including mass, length volume and money.
- Identify 3D shapes including cubes and cuboids from 2D representations.
- Know a range of angles and compare angle sizes.
- Draw given angle accurately

Statistics

- Complete read and interpret information in a range of tables, including timetables.
- Show comparisons, sum and difference problems using information presented in a line.

About the targets

These targets show some of the things your child should be able to do by the end of Year 4.

A target may be more complex than it seems, e.g. a child who can count to 1,000,000 may not know what each digit represents. In 784, for example, the '8' is worth 80 not just 8.