Maths at Pensans in Year 4

YEAR 4

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.
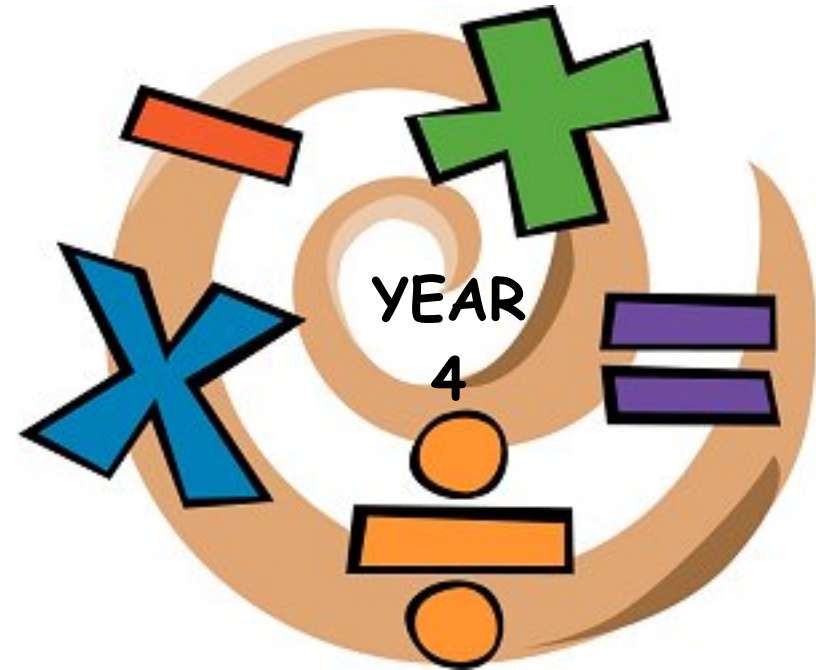Ask your child questions like:

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.

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 12x12 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. 6x8=48, the would also know that 8x6=48, that 48÷6=8 and that 48÷8=6. This will help them when solving larger problems and working with fractions.

Number and Place Value:
- I can count in multiples of 6, 7, 9, 25, 1,000
- I can find 1000 more or less than a given number.
- I can read, write an order numbers beyond 1000 and know the value of each digit.
- I can count backwards through 0 to include negative numbers..
- I can round any number up to the nearest 10, 100 or 1,000 including some decimals.
- Read roman numerals to 100 and recognise years written in roman numerals

Calculations
Addition and subtraction
- I can add and subtract numbers with up to 4 digits using written methods, such as the column method.
- Add and subtract large increasingly large numbers mentally.
- I can solve longer addition and subtraction problems and explain all the steps I took and how i worked them out.
- I can estimate and check my answers using inverse operations.
- I know all my times tables to 12 x 12
Multiplication and division
- I can multiply 3 numbers together such as 3 x 6 x 9
- I can recall multiplication facts for the 7 x table.
- I can recall multiplication facts for the 9 times table
- I can identify multiples and common factors of numbers.
- I can recognise factor pairs.
- I know prime numbers and composite numbers and recall them to 19.
- I can multiply two digit and three digit numbers by a one digit number using written methods.
- I can solve problems, including missing numbers, involving multiplication and division.

Fractions
- I can compare and order fractions confidently.
- Identify and find equivalent fractions and represent these visually.
- I can work out fractions of numbers such as 4/5 of 25 or 7/10 of 700.
- I can add and subtract fractions with the same denominator.
- I can recognise and write decimal equivalents to fractions. E.g. $\frac{1}{2}$ is 0.5
- I can read and write decimal numbers as fractions.
- I can round decimals with one decimal place to the nearest whole number.
- Read, write and order numbers with up to two decimal places.
- I can write simple percentages as decimals and fractions. ie 1/4, 1/2. 3/4
- I can solve problems involving increasingly harder fractions to calculate quantities and fractions to divide quantities.

Measurements and Geometry
- I can convert between different measurement eg km to m, hr to min.
- I can read, write and convert time between analogue and digital (12 and 24hr)
- I can measure and calculate the perimeter of simple shapes in centimetres and metres.
- I can calculate and compare the area of rectangles.
- I can estimate volume and capacity (e.g by using 1cm blocks to estimate)
- I can solve problems involving converting units of time.
- I can solve a range of problems involving measure including mass, length volume and money.
- I can identify 3D shapes including cubes and cuboids from 2D representations.
- I can identify acute and obtuse angles and compare and order angles by size.
- I can draw given angle accurately
- I know angles on a point, whole turn and right angles.
- I can find the co-ordinates and join up the points to create a shape.
- I can move (translate) a point on a grid by moving it either up/down or left/right.

Statistics
- I can complete read and interpret information in a range of tables, including timetables.
- I can show comparisons and continuous data presented in a line graph.

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.