

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.

Number games

Roll two dice. Make two-digit numbers, e.g. if you roll a 6 and 4, this could be 64 or 46. If you haven't got two dice, roll one dice twice. Ask your child to do one or more of the activities below.

- ◆ Count on or back from each number in tens.
- ◆ Add 19 to each number in their head. (A quick way is to add 20 then take away 1.)
- ◆ Subtract 9 from each number. (A quick way is to take away 10 then add back one.)
- ◆ Double each number.

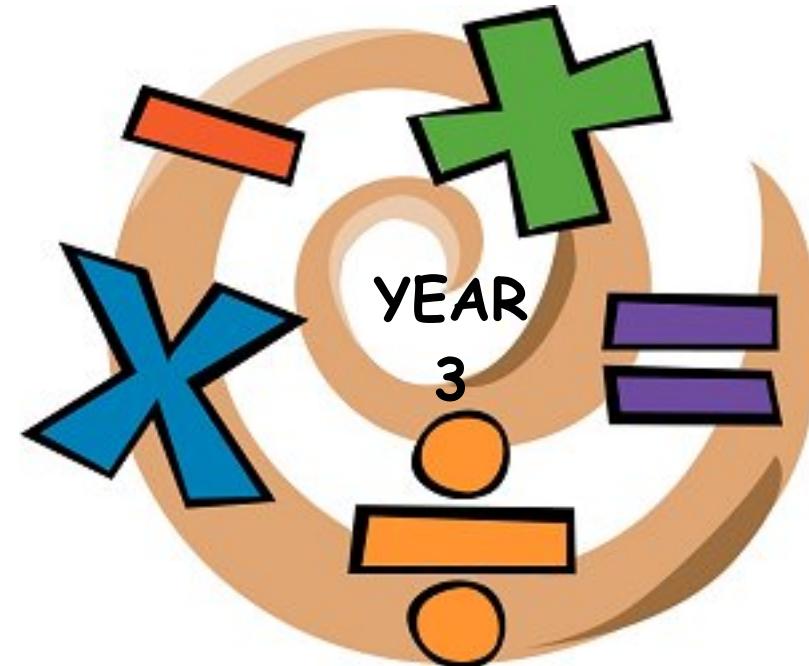
Bingo!

One person has the 4x table and the other has the 8x table. Write six numbers in that table on your piece of paper, e.g.

4 8 16 24 30 36

- ◆ Roll one or two dice. If you choose to roll two dice, add the numbers, e.g. roll two dice, get 3 and 4, add these to make 7.
- ◆ Multiply that number by 4 or by 8 (that is, by your table number, e.g. 7×4 or 7×8).
- ◆ If the answer is on your paper, cross it out.
- ◆ The first to cross out all six of their numbers wins.

Maths at Pensans in Year 3



A booklet for parents

This booklet provides information on the maths taught in Year 3 through mastery, including methods of calculation. It also includes End of Year expectations for children in Year 3, as well as ideas and activities to try at home.

National Curriculum Expectations at the end of Year 3

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

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

During Year 3 and Year 4, the focus of maths is on four operations (addition, subtraction, multiplication and division) so that children can carry out calculations mentally, and using written methods. In Year 3 your child is likely to be introduced to the standard written column methods of addition and subtraction.

Number and Place Value:

- Count in multiples of 6, 7, 9 and 1000.
- Find 1000 more or less than a given number.
- Recognise the place value of 4 digit numbers.
- Order and compare numbers beyond 1000.
- Round numbers to the nearest 10, 100 or 1000.
- Read roman numerals to numerals to 100.

Calculations

Addition and subtraction

- Add and subtract up to 4 digit numbers.
- Use a range of methods to calculate including column addition.
- Estimate answers and use inverse operations confidently.
- Solve a range of calculations, choosing the correct operation.

Multiplication and division

- Recall multiplication facts to 12×12 .
- Use place value to multiply and divide mentally.
- Recognise and use factor pairs.
- Multiply and divide 2 and 3 digit numbers using written methods.
- Solve word problems involving multiplying and dividing.

Fractions

- Recognise and show equivalent fractions.
- Count up and down in hundredths and tenths.
- Add and subtract fractions with the same denominator.
- Recognise and write decimal equivalents to fractions. E.g. $\frac{1}{2}$ is 0.5
- Round decimals to the nearest decimal place or whole number.
- Compare and order decimals with up to two decimal places.
- Solve simple measures i.e. money problems involving up to two decimal places.

Measurements and Geometry

- Convert between different units of measure (e.g. Kilometre to metre, hour to minute)
- Measure and calculate the area of squares and rectangles
- Know how to represent area by using cm^2 .
- Find the area of shapes by counting squares.
- Estimate, compare and calculate different measures including pounds and pence.
- Compare and classify geometric shapes including; quadrilaterals and triangles, based on proportions and sizes.
- Know about simple lines of symmetry and create own shapes to show this.
- Describe positions on a grid in the first quadrant.
- Describe movements between positions and translations.
- Plot points to draw given shapes including polygons.

Statistics

- Present data in a clear and concise way.
- Know how to construct bar charts and time graphs.
- Solve problems by taking information from bar charts, pictograms, tables and other graphs.

About the targets

These targets show some of the things your child should be able to do by the end of Year 3.

A target may be more complex than it seems, e.g. a child who can count to 1000 may not know what each digit represents. In 784, for example, the '8' is worth 80 not just 8.