

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.

Finding areas and perimeters

Perimeter = distance around the edge of a shape

Area of a rectangle = length x breadth (width)

- ♦ Collect 5 or 6 used envelopes of different sizes.
- ♦ Ask your child to estimate the perimeter of each one to the nearest centimetre. Write the estimate on the back.
- ♦ Now measure. Write the estimate next to the measurement.
- ♦ How close did your child get?
- ♦ Now estimate then work out the area of each envelope.
- ♦ Were perimeters or areas easier to estimate? Why?

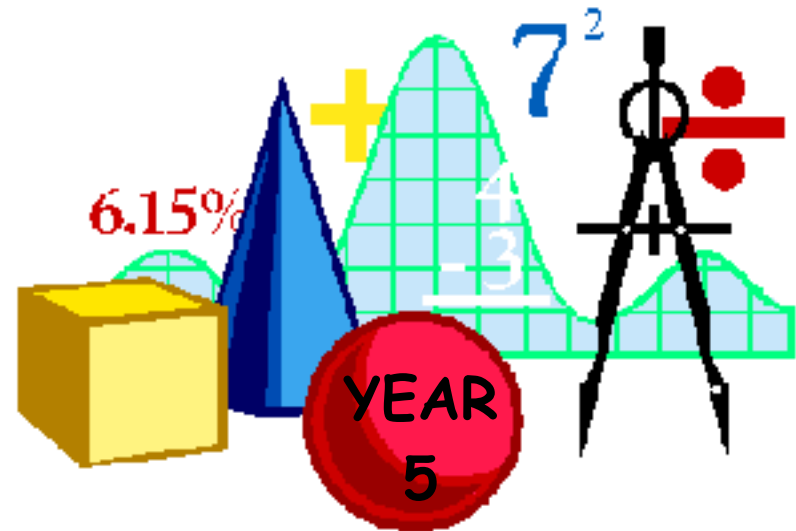
You could do something similar using an old newspaper, e.g.

- ♦ Work out which page has the biggest area used for photographs.
- ♦ Choose a page and work out the total area of news stories or adverts on that page.

Car numbers

- ♦ Choose a car number.
- ♦ You may add or subtract 10, 20, 30, 40, 50, 60, 70, 80 or 90.
- ♦ Try to get as close as possible to 555.
- ♦ Who can get closest during a week?

Maths at Pensans in Year 5



A booklet for parents

This booklet provides information on the maths taught in Year 5 through mastery, including methods of calculation. It also includes End of Year expectations for children in Year 5, as well as ideas and activities to try at home.

National Curriculum Expectations at the end of Year 5

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

Number and Place Value, Calculations, Fractions, Measurements/Geometry, Probability and Algebra.

During Year 5 and 6, children to use their knowledge of number bonds and times tables to tackle more complex problems, including larger \times and \div , and meeting new material. In Year 5, this includes more work on calculations with fractions and decimals, and using considerably larger numbers.

Number and Place Value:

- Read, write and order numbers to 10,000,000 and know the value of each digit.
- Round any whole number accurately and to whole decimal places.
- Identify prime numbers and know how to calculate them.
- Use negative numbers in context, and calculate across zero.
- Solve number and practical problems confidently.

Calculations

Addition and subtraction

- Solve problems involving addition and subtraction.
- Perform mental calculations quickly.
- Know how to solve multi step problems in a range of contexts.
- Use estimation to check the answers to calculations.

Multiplication and division

- Multiply up to 4 digit number using a range of methods including long multiplication.
- Divide up to 4 digit numbers and interpret as whole numbers.
- Divide up to 4 digit numbers by using short and long division.
- Perform mental calculations quickly.
- Identify common multiples and factors.

Fractions

- Use common factors to simplify fractions and express fractions.
- Compare and order fractions using $<$ $>$
- Add and subtract fractions with similar and mixed denominators.
- Multiply proper fractions by whole numbers.
- Divide proper fractions by whole numbers.
- Calculate fractions, decimals and percentages and know equivalences.
- Round all of the above to the nearest whole number or decimal place.

Measurements and Geometry

- Solve problems involving the converting measurements.
- Convert between standard units and metric including; length mass, volume and time.
- Convert between miles and kilometers.
- Recognise that shapes have the same area but different perimeters.
- Begin to calculate the volume of simple shapes and calculate compare and estimate the volume of cubes and cuboids.
- Calculate the area of parallelograms and triangles.
- Draw 2D shapes using simple angles.
- Build simple 3D shapes including nets.
- Find missing angles in a range of shapes.
- Illustrate and name parts of circles including radius, diameter and circumference.
- Calculate the averages of charts, including mean, median and mode

Probability

- Solve problems with proportion which include missing numbers.
- Solve problems which include the calculation of percentages.
- Solve problems using unequal amounts using knowledge of fractions and percentages.

Algebra

- To use simple formulae in algebra
- To generate and describe linear number sequences.
- To express missing number problems.
- Find pairs of numbers that satisfy an equation.
- Find possibilities of two calculations.

About the targets

Much of the knowledge in Y5 relies on number facts being easily recalled. Any practise to home to keep these skills sharp will help and certainly be appreciated by your child and their teacher!

