Fractions, Decimals and Percentage

Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions.

Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8].

Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8].

Multiply one-digit numbers with up to two decimal places by whole numbers.

Use written division methods in cases where the answer has up to two decimal places.

Solve problems, which require answers to be rounded to specified degrees of accuracy.

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

Ratio

Solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison.

Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

Algebra

Use simple formulae.

Generate and describe linear number sequences.

Express missing number problems algebraically.

Find pairs of numbers that satisfy an equation with two unknowns.

Ivy Bank Primary School

End of year Maths expectations for

Year 6

This booklet provides information for parents and carers on the end of year maths expectations for children in our school. These expectations are the minimum requirements your child needs to meet if they want to be secure (Y6S) and make continued progress the following year.

Any extra support you can provide in helping your child achieve these targets is greatly valued. On the website there are some ideas on how best to support your child and these will be updated each half term.

If you have any questions regarding the content of this booklet or would like support in knowing how best to help your child, please speak to your child's class teacher.

By the end of Year 6 a child working at the age related expectation should be able to:

Number and Place Value

Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit.

Round any whole number to a required degree of accuracy.

Use negative numbers in context, and calculate intervals across zero.

Solve number and practical problems that involve large numbers, rounding and negative numbers.

Addition and Subtraction

Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction).

Add and subtract numbers mentally with increasingly large numbers.

Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Measure

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.

Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places.

Calculate the area of parallelograms and triangles.

Recognise that shapes with the same areas can have different perimeters and vice versa.

Multiplication and Division

Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.

Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context.

Perform mental calculations, including with mixed operations and large numbers.
Use their knowledge of the order of operations to carry out calculations involving the four operations.

Solve problems involving addition, subtraction, multiplication and division, deciding which operations and methods to use.

Position and Direction

Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

Describe positions on the full coordinate grid (all four quadrants).

Statistics

Interpret and construct pie charts and line graphs and use these to solve problems.

Calculate and interpret the mean as an average

Properties of Shape

Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.

Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.