



End of Year 6 Maths Expectations



Number Statistics Algebra Ratio & Proportion Calculation
 Geometry Measurement

N1	Read and write numbers to at least 10,000,000
N2	Order and compare numbers up to 10,000,000 and determine the value of each digit
N3	Round any whole number to a required degree of accuracy
N4	Identify the value of each digit up to 3 d.p
N5	Multiply numbers by 10,100 and 1000 up to 3 d.p
N6	Divide numbers by 10, 100 and 1000 up to 3.dp
N7	Use negative numbers in context
N8	Calculate with negative numbers
N9	Use common factors to simplify fractions
N10	Use common multiples to express fractions in the same denomination
N11	Compare and order fractions, including fractions >1
N12	Add fractions with different denominators and mixed numbers
N13	Subtract fractions with different denominators and mixed numbers
N14	Multiply simple pairs of proper fractions, writing the answer in its simplest form
N15	Divide proper fractions by whole numbers
N16	Calculate decimal fraction equivalents
N17	Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
S1	Interpret and construct pie charts
S2	Interpret and construct line graphs
S3	Calculate and interpret the mean as an average
S4	Complete, read and interpret information in tables
A1	Use simple formulae
A2	Express missing number problems algebraically
A3	Find pairs of numbers that satisfy an equation with 2 unknowns
A5	Enumerate possibilities of combinations of 2 variables
A4	Generate and describe linear number sequences
R1	Solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
R2	Solve problems involving similar shapes where the scale factor is known or can be found
R3	Solve problems involving the calculation of percentages [for example, of measures such as 15% of 360] and the use of percentages for comparison
R4	Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

C1	Perform mental calculations, including with mixed operations and large numbers
C2	Use my knowledge of the order of operations to carry out calculations involving the 4 operations
C3	Solve addition multi-step problems in contexts, deciding which methods to use and why
C4	Solve subtraction multi-step problems in contexts, deciding which methods to use and why
C5	Solve problems involving all four operations deciding which operations to use and why
C6	Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy
C7	Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication.
C8	Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context.
C9	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
C10	Identify common factors and common multiples
C11	Identify prime numbers
C12	Multiply one-digit numbers with up to 2 decimal places by whole numbers
C13	Use written division methods in cases where the answer has up to 2 decimal places
C14	Solve problems involving multiplication
C15	Solve problems involving division
G1	Draw 2-D shapes using given dimensions and angles
G2	Recognise, describe and build simple 3-D shapes, including making nets
G3	Compare and classify geometric shapes based on their properties and sizes
G4	Identify and find unknown angles in any triangles
G5	Identify and find unknown angles in any quadrilaterals
G6	Identify and find unknown angles in any regular polygon
G7	Illustrate and name parts of circles (radius, diameter and circumference) and know that the diameter is twice the radius
G8	Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
G9	Describe positions on the full coordinate grid (all 4 quadrants)
G10	Draw and translate simple shapes on the coordinate plane
G11	Reflect simple shapes in the x and y axes
M1	Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p
M2	Use, read, write and convert between standard units, converting measurements of length up to 3d.p
M3	Use, read, write and convert between standard units, converting measurements of mass up to 3d.p
M4	Use, read, write and convert between standard units, converting measurements of volume up to 3d.p
M5	Use, read, write and convert between standard units, converting measurements of time
M6	Convert between miles and kilometres
M7	Recognise that shapes with the same areas can have different perimeters and vice versa
M8	Recognise when it is possible to use formulae for area and volume of shapes
M9	Calculate the area of parallelograms
M10	Calculate the area of triangles
M11	Calculate, estimate and compare volume of cubes and cuboids using standard units