Assessment: Meeting Year 5 Expectations

Year 5 Expectations: Number

- Count forwards and backwards in steps of power 10 for any given number up to 1,000,000

- Recognise and use thousandths and relate them to tenths, hundreds and decimal equivalents

- Recognise mixed numbers and improper fractions and convert from one to the other

- Read and write decimal numbers as fractions, e.g. 0.47 = 47/100

- Recognise the per cent symbol (%) and understand per cent relates to number of parts per hundred

- Write percentages as a fraction with denominator hundred, and as a decimal number

- Compare and add fractions whose denominators are all multiples of the same number

- Multiply and divide numbers mentally drawing upon known facts up to 12 x 12

- Round any number to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000

- Round decimals with 2dp to the nearest whole number and to 1 decimal place

- Recognise and use square numbers and cube numbers and the notation for squared (^{2}) and cubed (^{3})

- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000

- Multiply number up to 4-digit by a 1 or 2-digit number using formal written methods, including long multiplication for 2-digit numbers

- Divide numbers up to 4-digits by 1-digit numbers

- Solve problems involving multiplication and division where large numbers are used by decomposing them into factors

- Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why; solve problems involving 3-decimal places and problems which require knowledge of percentages and decimal equivalents

Year 5 Expectations: Measurement, Geometry and Statistics

- Know angles are measured in degrees: estimate and compare acute; obtuse and reflex angles

- Draw given angles and measure them in degrees (º)

- Convert between different units of metric measures and estimate volume and capacity

- Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres

- Calculate and compare the area of squares and rectangles including using standard units (cm² and m²)

- Solve comparison, sum and difference problems using information presented in a line graph

Parents' Guide
'Must Dos' by the end of Year 5

Number

- Read, write and order numbers to 1,000,000
- Count on and back in steps of 100,1,000, 10,000 up to 1,000,000
- Round any number to the nearest 10, 100, 1,000, 10,000 or 100,000
- Estimate and calculate additions involving 2, 3-digit numbers (to nearest 10)
- Estimate and calculate subtractions involving 2, 3-digit numbers (to nearest 10)
- Estimate and calculate multiplications involving a 2-digit and a 3-digit numbers (to nearest 10)
- Estimate and calculate divisions of a 3-digit number by a 1-digit number (to nearest 10)
- Add 3, 5-digit numbers using column addition

- Subtract one 5-digit number from another, using column subtraction
- **Rapid Recall:** Mentally add a 2-digit number to a 3-digit number
- **Rapid Recall:** Mentally add a 1000s number to a 5-digit number
- **Rapid Recall:** Mentally subtract a 2-digit number from a 3 or 4-digit number
- **Rapid Recall:** Mentally subtract a 1000s number from a 5-digit number
- Know all factors that make up numbers to 100
- Recognise all prime numbers to 100
- Multiply a 4-digit number by a 2-digit number using formal methods
- Divide a 4-digit number by a 1-digit number (with remainders)
- Multiply numbers by 10, 100 and 1,000

Parents' guide
'Must Dos' by the end of Year 5

Number

- Divide number by 10, 100 and 1,000
- Recognise and use square numbers and square roots
- Know and use the symbols $(^2),(^3)$ and $(\sqrt{})$ accurately
- Fractions: Compare and order fractions whose denominators are multiples of the same number
- Convert mixed numbers to improper fractions and visa versa
- Add and subtract fractions with the same denominator
- Multiple proper fractions and mixed fractions by whole numbers

Number

- Decimal Fractions: Read and write decimal numbers as fractions (up to hundredths)
- Round decimals with two decimal places to nearest whole number and one decimal place
- Read, write, order and compare decimal numbers with up to three decimal places
- Percentages: Recognise the % symbol
- Understand that percentage is measured as part of 100
- Solve problems which require knowing percentage and decimal value of ½, ¼, ⅕, ⅖ and ⅘

Parents' Guide
'Must Dos' by the end of Year 5

Shape and measures

- Measure angles in degrees
- Draw a given angle accurately
- Know and use reflex angles
- Construct shapes from given dimensions
- Identify 3D shapes from 2D representations
- Identify, describe and represent the position of a shape following reflection and translation

Shape and Measures

- Add, subtract, multiply and divide units of measure (using decimal notation)
- Understand and use basic equivalence between metric and common imperial units
- Calculate, estimate and compare areas of squares and rectangles using cm squared (cm²) and metre squared (m²)
- Recognise volume in practical contexts