

## Year 5 Maths Assessment

To be 'working' the children need to be working securely within the red statements.

Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit.

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

Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.

Multiply numbers up to 4 digits by a one digit number using a formal written method.

Multiply and divide numbers mentally drawing upon known facts.

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division.

Recognise and use square numbers and the notation for squared (2).

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

To be 'secure' the children need to achieve the red statements and be working securely within the orange statements.

Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero.

Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.

Solve number problems and practical problems that involve all of the above.

Add and subtract numbers mentally with increasingly large numbers.

Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.

Establish whether a number up to 100 is prime and recall prime numbers up to 19.

Multiply numbers up to 4 digits by a two-digit number using a formal written method, including long multiplication for two-digit numbers.

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context.

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

Recognise and use cube numbers, and the notation for cubed (3).

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.

Compare and order fractions whose denominators are all multiples of the same number.

Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.

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

Add and subtract fractions with the same denominator.

Multiply proper fractions by whole numbers, supported by materials and diagrams.

Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.

Round decimals with two decimal places to the nearest whole number and to one decimal place.

Read, write, order and compare numbers with up to three decimal places.

Write percentages as a fraction with denominator 100, and as a decimal.

To draw and measure acute and obtuse angles.

Complete, read and interpret information in tables, including timetables.

**To be secure+ the children need to achieve the red and orange statements and be working securely within the green statements**

Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.

Read Roman numerals to 1000 (M) and recognise years written in Roman numerals.

Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy.

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

Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes.

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

Write mathematical statements  $> 1$  as a mixed number [for example,  $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$ ].

Add and subtract fractions with denominators that are multiples of the same number.

Multiply mixed numbers by whole numbers, supported by materials and diagrams.

Read and write decimal numbers as fractions [for example,  $0.71 = 71/100$ ].

Solve problems involving number up to three decimal places.

Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.