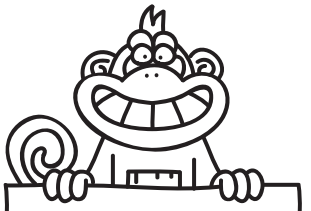
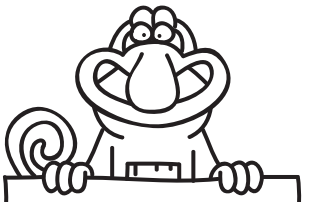
My Monkey Maths Mat



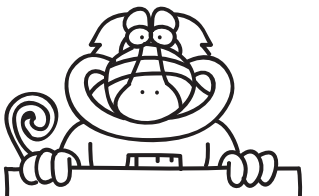
Number and Place Value

- I can find pairs of numbers that satisfy number sentences involving 2 unknowns.
- I can generate and describe linear number sequences.
- I can use simple formulae expressed in words.
- I can express missing number problems algabraically.
- I can recognise years written in Roman numerals and read to 1000 (M).
- I can solve number problems and practical problems.
- I can calculate intervals across '0' when using negative numbers.
- I can use negative numbers in context.
- I can round any whole number.
- I can read, write, order and compare numbers up to 10,000,000.



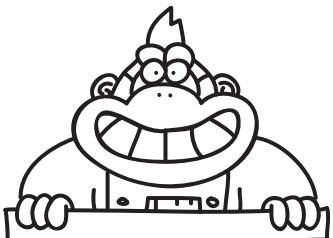
Addition, Subtraction, Multiplication and Division.

- I use estimation to check answers to calculations.
- I can solve problems involving any operation.
- I can solve addition and subtraction multi-step problems.
- I use knowledge of the order of operations to carry out calculations involving the 4 operations.
- I can identify common factors, multiples and prime numbers.
- I can calculate mentally, including with mixed operations and large numbers.
- I can interpret remainders as whole number remainders, fractions or by rounding.
- I can divide numbers up to 4 digits by a 2-digit whole number using a written method.
- I can multiply multi-digit numbers up to 4 digits by a 2-digit whole number using a written method.



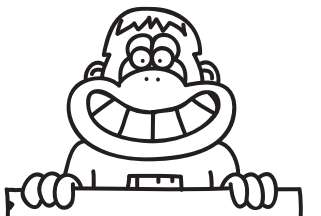
Ratio and Proportion

- I can solve ratio and proportion problems involving unequal sharing and grouping.
- I can solve ratio & proportion problems involving the relative sizes of 2 quantities including similarity.
- I can divide proper fractions by whole numbers (e.g. 1/3 ÷ 2 = 1/6)
- I can multiply simple proper fractions, writing the answer in its simplest form (e.g. 1/4 x 1/2 = 1/8)
- I can add & subtract fractions with different denominations & mixed numbers, by using equivalent fractions.
- I can associate a fraction with division to calculate decimal fraction equivalents (0.375) for a simple fraction (3/8)
- I can compare and order fractions, including fractions > 1.
- I can use common factors to simplify fractions & use common multiples to express fractions in the same denomination.



Fractions, Decimals & Percentages

- I can recall and use equivalences between simple fractions, decimals and percentages.
- I can solve problems involving the calculation of percentages of whole numbers, such as 15% of 360.
- I can solve problems which require answers to be rounded to specified degrees of accuracy.
- I can use written division methods in cases where the answer has up to 2 decimal places.
- I can multiply 1-digit numbers with up to 2 decimal places by a whole number.
- I can multiply and divide numbers by 10, 100 & 1000 where the answers are up to 3 decimal places.
- I can identify the value of each digit to three decimal places.



Measures

I can calculate estimate & compare volume of cubes & cuboids using cm cubed & cubic m.

I recognise when it is necessary to use the formulae for area & volume of shapes.

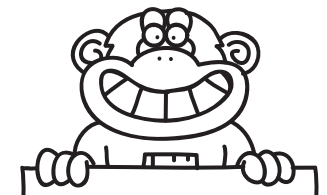
I can calculate the area of parallelograms and triangles.

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

I can convert between miles and kilometres.

I can read, write & convert between standard units of measure.

I can solve problems involving the calculation & conversion of units of measure, using decimal notation to 3 decimal places when needed.



Geometry

I can draw and translate simple shapes & reflect them in the axes.

I can describe positions on the full co-ordinate grid (all 4 quadrants).

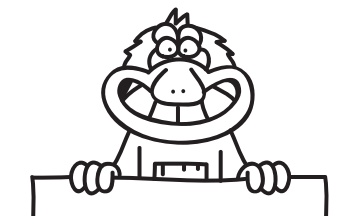
I can find unknown angles where they meet at a point, are on a straight line & are vertically opposite.

I can illustrate & name parts of circles, including radius, diameter and circumference.

I can find unknown angles in any triangles, quadrilaterals & regular polygons.

I can compare & classify geometric shapes based on their properties & size.

I can recognise, describe and build simple 3-D shapes, including making nets.



Statistics

I can convert kilometres into miles using a graphical representation.

I can draw graphs relating to two variables.

I can calculate and interpret the mean as well as average.

I can construct line graphs.

I can interpret line graphs.

I can construct pie charts.

I can interpret pie charts.

Notes: