Year 6 Maths Checklist

Number - multiplication and division

I can:

Number - Number and Place Value

all of the above. Number - Addition and Subtraction

I can:

ber — Number and Place Value	use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.	Geometry — Properties of Shapes I can:
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	Number – Fractions I can: use common factors to simplify fractions; use common multiples to express fractions in the same denomination compare and order fractions, including fractions > 1	draw 2-D shapes using given dimensions and angles recognise, describe and build simple 3-D shapes, including making nets compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
solve number and practical problems that involve all of the above.	 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions 	illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
ber – Addition and Subtraction in: solve addition and subtraction multi-step problems	 multiply simple pairs of proper fractions, writing the answer in its simplest form (for example, 1/4 x 1/2 = 1/8) divide proper fractions by whole numbers (for example, 	recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
in contexts, deciding which operations and methods to use and why perform mental calculations, including with mixed operations and large numbers use their knowledge of the order of operations to	 1/3 ÷ 2 = 1/6] associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 3/8] identify the value of each digit in numbers given to three decimal 	Geometry – Position and Direction I can: describe positions on the full coordinate grid (all four quadrants) draw and translate simple shapes on the coordinate plane, and reflect them in the axes.
ase their knowledge of the order of operations to carry out calculations involving the four operations solve problems involving addition, subtraction, multiplication and division use estimation to check answers to calculations and	places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places multiply one-digit numbers with up to two decimal places by whole numbers	Statistics I can: interpret and construct pie charts and line graphs and use these to solve problems
determine, in the context of a problem, an appropriate degree of accuracy.	 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 	calculate and interpret the mean as an average.
ber — multiplication and division in: multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written	degrees of accuracy recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. Measurement	Ratio and Proportion I can: solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts
method of long multiplication 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 divide numbers up to 4 digits by a two-digit number using the formal written method of short division	I can: 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	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 similar shapes where the scale factor is known or can be found solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.
where appropriate, interpreting remainders according to the context identify common factors, common multiples and prime numbers	 convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa 	Algebra I can: use simple formulae
perform mental calculations, including with mixed operations and large numbers use my knowledge of the order of operations to carry out calculations involving the four operations	 □ recognise when it is possible to use formulae for area and volume of shapes □ calculate the area of parallelograms and triangles □ calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres 	generate and describe linear number sequences express missing number problems algebraically find pairs of numbers that satisfy an equation with two unknowns enumerate possibilities of combinations of two variables.
solve problems involving addition, subtraction,	standard units, including capic certaineries (circ) and capic metres	

(m3), and extending to other units [for example, mm3 and km3].

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multiplication and division