	Tick Boxes for National Curriculum Targets (England)	Why Pla
Evidence Date	Year 6 Numeracy	Learning at Hom
	Number – number and place value	
	read, write, order and compare numbers up to 10 000 000 and determine the valu digit	ue of each
	round any whole number to a required degree of accuracy	
	use negative numbers in context, and calculate intervals across zero	
	solve number and practical problems that involve all of the above	
	Number – addition, subtraction, multiplication and o	divisior
	multiply multi-digit numbers up to 4 digits by a two-digit whole number using th written method of long multiplication	e formal
	divide numbers up to 4 digits by a two-digit whole number using the formal writter long division, and interpret remainders as whole number remainders, fractions, or b as appropriate for the context	
	divide numbers up to 4 digits by a two-digit number using the formal written meth division where appropriate, interpreting remainders according to the conte	
	perform mental calculations, including with mixed operations and large num	bers
	identify common factors, common multiples and prime numbers	
	use their knowledge of the order of operations to carry out calculations involving operations	the four
	solve addition and subtraction multi-step problems in contexts, deciding which ope methods to use and why	rations and

Number – addition, subtraction, multiplication and divisior
solve problems involving addition, subtraction, multiplication and division
use estimation to check answers to calculations and determine, in the context of a problem, a appropriate degree of accuracy
Number – fractions (including decimals and percentages)
use common factors to simplify fractions; use common multiples to express fractions in the same denomination
compare and order fractions, including fractions > 1
add and subtract fractions with different denominators and mixed numbers, using the concep of equivalent fractions
multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $1/4 \times 1/2 = 1/8$]
divide proper fractions by whole numbers [for example, $1/3 \div 2 = 1/6$]
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 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
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 degrees of accuracy
recall and use equivalences between simple fractions, decimals and percentages, including ir different contexts

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Ratio and proportion
solve problems involving the relative sizes of two quantities where missing values can be fou by using integer multiplication and division facts
solve problems involving the calculation of percentages [for example, of measures, and such 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
Algebra
 use simple formulae
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
Measurement
solve problems involving the calculation and conversion of units of measure, using decimentary of three decimal places where appropriate
use, read, write and convert between standard units, converting measurements of lengt mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, usi decimal notation to up to three decimal places
convert between miles and kilometres
recognise that shapes with the same areas can have different perimeters and vice versa
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 (m3), and extending to other units [for example, mm3 and km3]
Geometry – properties of shapes
A 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
 illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
recognise angles where they meet at a point, are on a straight line, or are vertically opposite and find missing angles.
Geometry – position and direction
describe positions on the full coordinate grid (all four quadrants)
A draw and translate simple shapes on the coordinate plane, and reflect them in the axes
Statistics
interpret and construct pie charts and line graphs and use these to solve problems
calculate and interpret the mean as an average