

## Mathematics Number & Calculations

Name: \_\_\_\_\_

By the end of Year 6...

Бу ц	ne ena oj	<b>T</b>
		*I can read and write numbers up to 10,000,000.
d)		*I can use negative numbers in context and calculate intervals across zero.
To Know and Use Numbers		*I can determine the value of each digit in any number.
now and Numbers		*I can order and compare numbers up to 10,000,000.
w a		*I can round any number to a required degree of accuracy.
Nu		*I understand the Roman numeral system, including recognising years written in Roman numerals.
o X		*I can solve a wide variety of number and practical problems using all four operations.
-		*I can use negative numbers in context and calculate intervals across zero.
		*I review my approaches to problem solving and make improvements for next time.
To Add and Subtract		*I can add and subtract negative integers in context.
		*I can add and subtract whole numbers with more than five digits.
		*I can add and subtract numbers mentally with increasingly large numbers.
		*I can solve addition and subtraction multi-step problems in contexts, deciding which operations
		and methods to use and why.
= "		*I use rounding to check answers to calculations and determine, in the context of a problem, levels of
		accuracy.
		*I can identify common factors, common multiples and prime numbers.
		*I can perform mental calculations, including with mixed operations and large numbers.
Ō		*I can multiply multi-digit numbers up to 4 digits by a two digit whole number using formal
vid		methods.
Θ		*I can divide numbers up to 4 digits by a two-digit whole number using formal methods.
anc		*I can interpret remainders as whole number remainders, fractions, or by rounding as appropriate
To Multiply and Divide		to the context.
ij		*I can use my knowledge of the order of operations to calculate with all four operations.
ž		E.g. $2+1 \times 3 = 5$ whereas $(2+1) \times 3 = 9$ .
ဥ		*I can solve multi-step problems, using all operations, in contexts.
		*I use estimation to check answers to calculations and problems and determine an appropriate
		degree of accuracy.
		Ration and Proportion
		*I can use the notation a: b to record my work.
		*I can solve problems comparing quantities and sizes through my understanding of ratio.
_		*I can solve problems involving the relative sizes of two quantities where missing values can be found
gebra		by using multiplication and division facts.
lge		*I can solve problems involving the calculation of percentages and the use of percentages for
¥		comparison.
		*I can solve problems involving similar shapes where the scale factor is known or can be found.
		*I can solve problems involving unequal sharing and grouping using knowledge of fractions and
		multiples.
		*I can compare and order fractions, including fractions > 1.
		*I can identify the value of each digit in numbers given to 3dp.
		*I can add and subtract fractions with different denominators and mixed numbers, using the
		concept of equivalent fractions.
		*I can multiply simple pairs of proper fractions, writing the answer in its simplest form.
S		*I can divide proper fractions by whole numbers.
ion		*I can multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places.
To Use Fractions		*I can multiply and divide numbers with up to 2dp by one and two digit whole numbers.
e Fi		*I can multiply decimals by whole numbers, including in the context of money and measures.
Š		*I am beginning to divide decimal numbers by a one digit whole number, in practical contexts.
10		*I can reduce fractions to their simplest form by cancelling common factors.
		*I can reduce fractions to their simplest form by expressing fractions in the same denomination.
		*I can associate a fraction with division and calculate decimal fraction equivalents. e.g. $^{3}/_{8} = 3 \div 8 =$
		0.375
		*I can solve problems that involve using my knowledge of the relationship between unit fractions
		and division. e.g. ¼ of a length = 36cm so the whole length is 36x4 =144cm.
1		und division. C.g. /4 of a feligur - Journ 30 the whole leligur is Jun4 -144th.