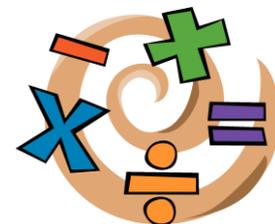




Mathematics

Number & Calculations



Name: _____

By the end of Year 5...

To Know and Use Numbers			*I can read and write numbers to at least 1,000,000.
			I can order and compare numbers up to 1,000,000
			I can count forwards and backwards in steps of powers of 10 for any number up to 1,000,000 .
			*I can count forward and backwards with positive and negative whole numbers , including across zero.
			I can determine the value of each digit in any number up to at least 5 digits .
			I can read Roman numerals to 1000 (M) .
			I can round any number up to 1,000,000 to the nearest 10,100, 1000, 10,000 and 100,000 .
To Add and Subtract			*I can solve problems involving a combination of addition, subtraction, multiplication and division .
			I can add and subtract negative integers .
			*I can add and subtract whole numbers with more than four digits .
			*I can mentally add and subtract numbers with increasingly large numbers.
			I can solve two-step problems in context involving all operations.
To Multiply and Divide			I use rounding to check answers to calculations and determine level of accuracy.
			*I can identify multiples and factors , including common factors of two numbers .
			I know and use the vocabulary: prime numbers, prime factors and composite numbers .
			I can recall prime numbers up to 19 and can establish whether any number up to 100 is a prime number .
			I can recognise and use square numbers, cube numbers, including the notation . (3^2 , 5^3).
			I can multiply and divide mentally , drawing upon known facts.
			I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 .
			I can multiply multi-digit numbers up to four digits by a one/two-digit number using formal methods.
			I can divide numbers up to four digits by a one-digit whole number using formal methods.
			I can interpret remainders as whole number remainders, fractions or by rounding , as appropriate.
			I understand the inverse relationship between multiplication and division and use it to check the answers to a calculation.
To Use Fractions			I can solve two-step problems in context involving all operations.
			*I can solve problems involving multiplication and division , using my knowledge of factors and multiples, squares and cubes.
			*I can solve problems that include scaling by simple fractions and problems involving simple rates .
			*I can read, write, order and compare numbers with up to 3dp .
			I can round decimals with 2dp to the nearest whole number and to 1dp .
			*I can compare and order fractions whose denominators are all multiples of the same number .
			I can identify, name and write equivalent fractions of a given fraction .
			*I can read and write decimal numbers as fractions .
			I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents .
			I can recall and use equivalences between simple fractions, decimals and percentages , in context.
			I can add and subtract decimals . (<i>mix of whole numbers and decimals; decimals with different number of decimal points; compliments to 1 e.g. $0.83+0.17=1$</i>)
			I can add and subtract fractions with the same denominator and denominators that are multiples of the same number . e.g. $\frac{1}{3} + \frac{2}{6} = \frac{2}{3}$
			I can convert mixed numbers and improper fractions from one form to the other.
			I can multiply proper fractions and mixed numbers by whole numbers .
			I can recognise the percent symbol (%) and understand its meaning .
		I can write percentages as a fraction with a denominator of 100 and as a decimal . E.g. $\frac{30}{100} = 30\% = 0.30$.	
		*I can solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25 .	