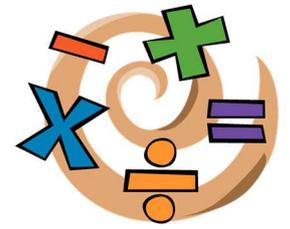




Mathematics

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 1 million .
		I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals
		I can round any number up to 1,000,000 to the nearest 10,100, 1000, 10,000 and 100,000 .
		*I can solve problems and practical problems covering all of the Year 5 number targets.
		*I can add and subtract whole numbers with more than four digits using formal methods.
		*I can mentally add and subtract numbers with increasingly large numbers.
		I can solve multi-step addition and subtraction problems in context involving all operations.
		I use rounding to check answers to calculations and determine level of accuracy.
	To Multiply and Divide	
		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.
		I can solve two-step problems in context involving all operations and an understanding of the = sign.
		*I can solve problems involving multiplication and division , using my knowledge of factors and multiples, squares and cubes.
To Use Fractions		
		*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 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 solve problems involving decimals up to 3DP .
		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 recognise and convert mixed numbers and improper fractions from one form to the other.
		I can count forwards and backwards in simple fractions .
		I can multiply proper fractions and mixed numbers by whole numbers .
		I can calculate fractions of quantities and amounts .
		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 .