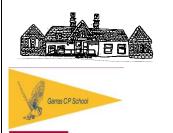
GARRAS AND SITHNEY PRIMARY SCHOOLS

Calculation Policy



Year		Mental Calculation	Written Calculation	Default for all Children
	Overview of KS1	place value, they will develop an underst numbers above 100. A focus on number a good grounding in these crucial facts, at least. They will also have experienced numbers, and to add/subtract a single di or 10, and to understand which digit cha and from any 2-digit number. The most counting on or back in tens and ones. Ch count in 2s, 3s, 5s and 10s, and will have and 10x tables. Engaging in a practical wunderstanding of multiplication, and aski division. They will also be taught to dou	anding of how numbers work, so that they are confic bonds, first via practical hands-on experiences and s	ant conceptual tool is their ability to add/subtract 1 able children to add and subtract multiples of ten to y to add or subtract any pair of 2-digit numbers by bers into tens and ones. Children will be taught to we met and begun to learn the associated 2x, 3x, 5x of arrays enables children to develop a preliminary mber make a total will introduce them to the idea of ing up or down as a further aspect of multiplication
Y1	Addition	Number bonds ('story of' 5, 6, 7, 8, 9 and 10) Count on in ones from a given 2-digit number Add two single-digit numbers Add three single-digit numbers spotting doubles or pairs to 10 Count on in tens from any given 2-digit number Add 10 to any given 2-digit number Use number facts to add single-digit numbers to two-digit numbers, e.g. use 4 + 3 to work out 24 + 3, 34 + 3 Add by putting the larger number first		Pairs with a total of 10 Counting in ones Counting in tens Count on 1 from any given 2-digit number

	Subtraction	Number bonds ('story of' 5, 6, 7, 8, 9 and 10) Count back in ones from a given 2-digit number Subtract one single-digit number from another Count back in tens from any given 2-digit number Subtract 10 from any given 2-digit number Use number facts to subtract single-digit numbers from two-digit numbers, e.g. use 7 – 2 to work out 27 – 2, 37 – 2	Pairs with a total of 10 Counting back in ones from 20 to 0 Counting back in tens from 100 to 0 Count back 1 from any given 2-digit number
	Multipli cation	Begin to count in 2s, 5s and 10s Begin to say what three 5s are by counting in 5s or what four 2s are by counting in 2s, etc. Double numbers to 10	Begin to count in 2s and 10s Double numbers to 5 using fingers
	Division	Begin to count in 2s, 5s and 10s Find half of even numbers to 12 and know it is hard to halve odd numbers Find half of even numbers by sharing Begin to use visual and concrete arrays or 'sets of' to find how many sets of a small number make a larger number	Begin to count in 2s and 10s Find half of even numbers by sharing
Y2	Addition	Number bonds – knowing all the pairs of numbers which make all the numbers to 12, and pairs with a total of 20 Count on in ones and tens from any given 2-digit number Add two or three single-digit numbers Add a single-digit number to any 2-digit number using number facts, including bridging multiples of 10. (E.g. 45 + 4, 38 + 7) Add 10 and small multiples of 10 to any given 2-digit number Add any pair of 2-digit numbers	Know pairs of numbers which make each total up to 10 Add two single digit numbers Add a single-digit number to a 2-digit number by counting on in ones Add 10 and small multiples of 10 to a 2-digit number by counting on in tens

Subtraction	Number bonds – knowing all the pairs of numbers which make all the numbers to 12 Count back in ones and tens from any given 2-digit number Subtract a single-digit number from any 2-digit number using number facts, including bridging multiples of 10, e.g. 56 – 3, 53 – 5. Subtract 10 and small multiples of 10 from any given 2-digit number Subtract any pair of 2-digit numbers by counting back in tens and ones or by counting up.	Know pairs of numbers which make each total up to 10 Subtract a single-digit number from a 2-digit number by counting back in ones Subtract 10 and small multiples of 10 from a 2-digit number by counting back in tens
Multiplication	Count in 2s, 5s and 10s Begin to count in 3s. Begin to understand that multiplication is repeated addition and to use arrays (E.g. 3 x 4 is three rows of 4 dots) Begin to learn the 2x, 3x, 5x and 10x tables, seeing these as 'lots of', e.g. 5 lots of 2, 6 lots of 2, 7 lots of 2, etc. Double numbers up to 20 Begin to double multiples of 5 to 100 Begin to double two-digit numbers less than 50 with 1s digits of 1, 2, 3 4 or 5	Count in 2s, 5s and 10s Begin to use and understand simple arrays, e.g. 2 x 4 is two lots of four buns. Double numbers up to 10 Double multiples of 10 to 50
Division	Count in 2s, 5s and 10s Begin to count in 3s Using fingers, say where a given number is in the 2s, 5s or 10s count. (E.g. 8 is the fourth number when I count in twos.) Relate division to grouping. (E.g. how many groups of five in fifteen?) Halve numbers to 20 Begin to halve numbers to 40 and multiples of 10 to 100 Find ½, ¼, ¼ and ¾ of a quantity of objects and of amounts (whole number answers)	Count in 2s, 5s and 10s Say how many rows in a given array. (E.g. how many rows of 5 in an array of 3 x 5) Halve numbers to 12 Find 1/2 of amounts

	Overview of LKS2	In the lower juniors, children build on the concrete and conceptual understandings they have gained in the Infants to develop a real mathematical understanding of the four operations, in particular developing arithmetical competence in relation to larger numbers. In addition and subtraction, they are taught to use place value and number facts to add and subtract numbers mentally and will develop a range of strategies to enable them to discard the 'counting in ones' or fingers-based methods of the infants. In particular, they will learn to add and subtract multiples and near multiples of 10, 100 and 1000, and will become fluent in complementary addition as an accurate means of achieving fast and accurate answers to 3-digit subtractions. Standard written methods for adding larger numbers are taught, learned and consolidated, and written column subtraction is also introduced. This key stage is also the period during which all the multiplication and division facts are thoroughly memorised, including all facts up to the 12 x 12 table. Efficient written methods for multiplying or dividing a 2-digit or 3-digit number by as single-digit number are taught, as are mental strategies for multiplication or division with large but friendly numbers, e.g. when dividing by 5 or multiplying by 20. Children will develop their understanding of fractions, learning to reduce a fraction to its simplest form as well as finding non-unit fractions of amounts and quantities. The concept of a decimal number is introduced and children consolidate a firm understanding of one-place decimals, multiplying and dividing whole numbers by 10 and 100.				
Υ3	Addition	Know pairs with each total to 20 Know pairs of multiples of 10 with a total of 100 Add any two 2-digit numbers by counting on in 10s and 1s or by using partitioning Add multiples and near multiples of 10 and 100 Perform place value additions without a struggle. (E.g. 300 + 8 + 50 = 358) Use place value and number facts to add a 1-digit or 2-digit number to a 3-digit number. (E.g. 104 + 56 is 160 since 104+50=154 and 6+4=10 and 676 + 8 is 684 since 8=4+4 and 76+4+4=84) Add pairs of 'friendly' 3-digit numbers, e.g. 320 + 450 Begin to add amounts of money using partitioning.	Use expanded column addition to add two or three 3-digit numbers or three 2-digit numbers Begin to use compact column addition to add numbers with three digits. Begin to add like fractions. (E.g. $^3/_8 + ^1/_8 + ^1/_8$) Recognise fractions that add to 1. (E.g. $^1/_4 + ^1/_8$) or $^3/_5 + ^2/_5$)	Know pairs of numbers which make each total up to 10, and which total 20 Add two 2-digit numbers by counting on in tens and ones (E.g. 56 + 35 is 56 + 30 and then add the 5) Understand simple place value additions: 200 + 40 + 5 = 245 Use place value to add multiples of 10 or 100		

$\overline{}$		Know pairs with onch total to 20	Her counting up as an informal weither starts and	Vacuuming of numbers which realize as ab takel we to
		Know pairs with each total to 20	Use counting up as an informal written strategy	Know pairs of numbers which make each total up to
		Subtract any two 2-digit numbers	for subtracting pairs of three-digit numbers, e.g.	10, and which total 20
		Perform place value subtractions	423 – 357 is	Count up to subtract 2-digit numbers: 72 – 47 is
		without a struggle. (E.g. 536 – 30 =	+3 +40 +23 = 66	+3 +10 +10 +2 = 25
		506, etc.)		
	Subtraction	Subtract 2-digit numbers from numbers	357 360 400 423	47 50 60 70 2
	5	>100 by counting up. (E.g. 143 – 76 is		
	3	done by starting at 76, add 4 (80) then	Begin to subtract like fractions. (E.g. $^{7}/_{8}$ - $^{3}/_{8}$)	Subtract multiples of 5 from 100 by counting up
	ac	add 20 (100) then add 43 making the		+5 <u>+60</u> =65
	⊈.	difference a total of 67)		
	ĭ	Subtract multiples and near multiples		35 40 100
		of 10 and 100		
		Subtract, when appropriate, by		Subtract multiples of 10 and 100
		counting back or taking away, using		Subtract materies of 10 and 100
		place value and number facts.		
		Find change from £1, £5 and £10.		
Ī		Know by heart all the multiplication	Use partitioning (grid multiplication) to multiply 2-	Know by heart the 2x, 3x, 5x and 10x tables
		facts in the 2x, 3x, 4x, 5x, 8x and 10x	digit and 3-digit numbers by 'friendly' single digit	Double given tables facts to get others
		tables	numbers.	Double numbers up to 25 and multiples of 5 to 50
	7	Multiply whole numbers by 10 and 100	numbers.	bouble numbers up to 25 and multiples of 5 to 50
	Multiplication			
	큠	Recognise that multiplication is		
	<u>₽</u>	commutative		
	<u>≅</u> .	Use place value and number facts in		
	at	mental multiplication. (E.g. 30 x 5 is 15		
	<u>o</u> .	x 10)		
	3	Partition teen numbers to multiply by a		
		single-digit number. (E.g. 3 x 14 as 3 x		
		10 and 3 x 4)		
ļ		Double numbers up to 50		
		Know by heart all the division facts derived	Perform divisions just above the 10 th multiple	
		from the 2x, 3x, 4x, 5x, 8x and 10x tables.	using the written layout and understanding how	Know by heart the division facts derived from the
		Divide whole numbers by 10 or 100 to give	to give a remainder as a whole number.	2x, 3x, 5x and 10x tables
		whole number answers	Find unit fractions of quantities and begin to find	Halve even numbers up to 50 and multiples of ten
		Describe that division is not commutative	non-unit fractions of quantities	to 100
		Recognise that division is not commutative.		Perform divisions within the tables including those
	Ž.	Use place value and number facts in mental		with remainders, e.g. 38 ÷ 5.
	Divisi	division. (E.g. 84 ÷ 4 is half of 42)		, ,
	3	Divide larger numbers mentally by		
		subtracting the tenth multiple, including		
		those with remainders. (E.g. $57 \div 3$ is $10 +$		
		9 as 10x3=30 and 9x3=27)		
		Halve even numbers to 100, halve odd		
		numbers to 20		
		Humbers to 20		

Multiplication	Know by heart all the multiplication facts up to 12 x 12. Recognise factors up to 12 of two-digit numbers. Multiply whole numbers and one-place decimals by 10, 100, 1000 Multiply multiples of 10, 100, 1000 by single digit numbers. (E.g. 300 x 6 or 4000 x 8) Use understanding of place value and number facts in mental multiplication. (E.g. 36 x 5 is half of 36 x 10 and 50 x 60 = 3000) Partition 2-digit numbers to multiply by a single-digit number mentally. (E.g. 4 x 24 as 4 x 20 and 4 x 4) Multiply near multiples using rounding. (E.g. 33 x 19 as 33 x 20 – 33) Find doubles to double 100 and beyond using partitioning Begin to double amounts of money. (E.g. £35.60 doubled = £71.20.)	Use a vertical written method to multiply a one-digit by a 3-digit number (ladder) Use an efficient written method to multiply a 2-digit number by a number between 10 and 20 by partitioning (grid method)	Know by heart multiplication tables up to 10 x 10 Multiply whole numbers by 10 and 100 Use grid method to multiply a 2-digit or a 3-digit number by a number up to and including 6
Division	Know by heart all the division facts up to $144 \div 12$. Divide whole numbers by 10, 100 to give whole number answers or answers with one decimal place Divide multiples of 100 by 1-digit numbers using division facts. (E.g. $3200 \div 8 = 400$) Use place value and number facts in mental division. (E.g. $245 \div 20$ is double $245 \div 10$) Divide larger numbers mentally by subtracting the 10^{th} or 20^{th} multiple as appropriate. (E.g. $156 \div 6$ is $20 + 6$ as $20x6=120$ and $6x6=36$) Find halves of even numbers to 200 and beyond using partitioning Begin to halve amounts of money. (E.g. Half of £52.40 = £26.20)	Use a written method to divide a 2-digit or a 3-digit number by a single-digit number. Give remainders as whole numbers. Begin to reduce fractions to their simplest forms. Find unit and non-unit fractions of larger amounts.	Know by heart all the division facts up to $100 \div 10$. Divide whole numbers by 10 and 100 to give whole number answers or answers with one decimal place Perform divisions just above the 10^{th} multiple using the written layout and understanding how to give a remainder as a whole number. Find unit fractions of amounts

	Overview of UKS2	consolidate their use of written procedur decimal places. Mental strategies for add understanding of place value and knowled practised, so that children can perform a it is in Y5 and Y6 that children extend the decimals are also added, subtracted, divi	Children move on from dealing mainly with whole numbers to performing arithmetic operations with both decimals and fractions. They will consolidate their use of written procedures in adding and subtracting whole numbers with up to 6 digits and also decimal numbers with up to two decimal places. Mental strategies for adding and subtracting increasingly large numbers will also be taught. These will draw upon children's robust understanding of place value and knowledge of number facts. Efficient and flexible strategies for mental multiplication and division are taught and practised, so that children can perform appropriate calculations even when the numbers are large, such as $40,000 \times 6$ or $40,000 \div 8$. In addition, it is in Y5 and Y6 that children extend their knowledge and confidence in using written algorithms for multiplication and division. Fractions and decimals are also added, subtracted, divided and multiplied, within the bounds of children's understanding of these more complicated numbers, and they will also calculate simple percentages and ratios. Negative numbers will be added and subtracted.			
Y 5	Addition	Know numbers bonds to 1 and to the next whole number Add to the next 10 from a decimal number, e.g. $13.6 + 6.4 = 20$ Add numbers with two significant digits only, using mental strategies. (E.g. 3.4 + 4.8 or 23,000 + 47,000) Add one or two-digit multiples of 10, 100, 1000, 10,000 and 100,000. (E.g. 8000 + 7000 or 600,000 + 700,000) Add near multiples of 10, 100, 1000, 10,000 and 100,000 to other numbers. (E.g. 82,472 + 30,004) Add decimal numbers which are near multiples of 1 or 10, including money. (E.g. $6.34 + 1.99$ or £3 $4.59 + £19.95$) Use place value and number facts to add two or more friendly numbers including money and decimals. (E.g. $3 + 8 + 6 + 4 + 7, 0.6 + 0.7 + 0.4$, or $2,056 + 44$)	Use column addition to add two or three whole numbers with up to 5 digits Use column addition to add any pair of two-place decimal numbers including amounts of money. Begin to add related fractions using equivalences. (E.g. $1/2 + 1/6 = 3/6 + 1/6$) Choose the most efficient method in any given situation	Add numbers with only 2-digits which are not zeros, e.g. 3.4 + 5.8 Derive swiftly and without any difficulty number bonds to 100 Add friendly large numbers using knowledge of place value and number facts Use expanded column addition to add pairs of 4-and 5-digit numbers		
	Subtraction	Subtract numbers with two significant digits only, using mental strategies. (E.g. 6.2 – 4.5 or 72,000 – 47,000) Subtract one or two-digit multiples of 100, 1000, 10,000 and 100,000. (E.g. 8000 – 3000 or 600,000 – 200,000) Subtract one or two digit near multiples of 100, 1000, 10,000 and 100,000 from other numbers. (E.g. 82,472 – 30,004) Subtract decimal numbers which are near multiples of 1 or 10, including money. (E.g. 6·34 – 1·99 or £34·59 –	Use compact or expanded column subtraction to subtract numbers with up to 5 digits. Use complementary addition for subtractions where the larger number is a multiple or near multiple of 1000. Use complementary addition for subtractions of decimals with up to two places incl. amounts of money Begin to subtract related fractions using equivalences. (E.g. $1/2 - 1/6 = 2/6$) Choose the most efficient method in any given situation	Derive swiftly and without difficulty number bonds to 100 Use counting up with confidence to solve most subtractions, including finding complements to multiples of 1000. (E.g. $3000 - 2387$ is done by		

	£19·95) Use counting up subtraction, with knowledge of number bonds to 10/100 or £1, as a strategy to perform mental subtraction. (E.g. £10 - £3.45 or 1000 – 782] Recognise fraction complements to 1		
	and to the next whole number. (E.g. 1 $\frac{2}{5} + \frac{3}{5} = 2$) $4 - 5$		
Multiplication	Know by heart all the multiplication facts up to 12×12 . Multiply whole numbers and one-and two-place decimals by 10 , 100 , 1000 , $10,000$ Use knowledge of factors and multiples in multiplication. (E.g. 43×6 is double 43×3 , and 28×50 is $\frac{1}{2}$ of $28 \times 100 = 1400$) Use knowledge of place value and rounding in mental multiplication. (E.g. 67×199 as $67 \times 200 - 67$) Use doubling and halving as a strategy in mental multiplication. (E.g. $58 \times 5 = 100$ half of 58×10 , and 34×4 is 34×100 doubled twice) Partition 2-digit numbers, including decimals, to multiply by a single-digit number mentally. (E.g. 6×27 as 6×20 (120) plus 6×7 (42) making 162 or 6.3×7 as 6×7 plus 0.3×7) Double amounts of money by partitioning. (E.g. £37.45 doubled = £37 doubled (£74) plus $45p$ doubled ($90p$) £74.90)	Use short multiplication to multiply a 1-digit number by a number with up to 4 digits Use long multiplication to multiply 3-digit and 4-digit number by a number between 11 and 20 Choose the most efficient method in any given situation Find simple percentages of amounts 9e.g. 10%, 5%, 20%, 155 and 50%) Begin to multiply fractions and mixed numbers by whole numbers ≤ 10 , e.g. $4 \times {}^2/_3 = {}^8/_3 = 2^2/_3$.	Know multiplication tables to 11 x 11 Multiply whole numbers and one-place decimals by 10, 100 and 1000 Use knowledge of factors as aids to mental multiplication. (E.g. 13 x 6 = double 13 x 3 and 23 x 5 is ½ of 23 x 10) Use grid method to multiply numbers with up to 4-digits by one-digit numbers. Use grid method to multiply 2-digit by 2-digit numbers.

	Division	Know by heart all the division facts up to $144 \div 12$. Divide whole numbers by 10, 100, 1000, 10,000 to give whole number answers or answers with 1, 2 or 3 decimal places Use doubling and halving as mental division strategies. (E.g. $34 \div 5$ is $(34 \div 10) \times 2$) Use knowledge of multiples and factors, also tests for divisibility ,in mental division. (E.g. $246 \div 6$ is $123 \div 3$ and we know that 525 divides by 25 and by 3) Halve amounts of money by partitioning. (E.g. Half of £75.40 = half of £75 (37.50) plus half of 40p (20p) which is £37.70) Divide larger numbers mentally by subtracting the 10^{th} or 100^{th} multiple as appropriate. (E.g. $96 \div 6$ is $10 + 6$, as $10 \times 6 = 60$ and $6 \times 6 = 36$; $312 \div 3$ is $100 + 4$ as $100 \times 3 = 300$ and $4 \times 3 = 12$) Reduce fractions to their simplest form.	Use short division to divide a number with up to 4 digits by a number ≤12. Give remainders as whole numbers or as fractions. Find non-unit fractions of large amounts. Turn improper fractions into mixed numbers and vice versa. Choose the most efficient method in any given situation	Know by heart division facts up to 121 ÷ 11 Divide whole numbers by 10, 100 or 1000 to give answers with up to one decimal place. Use doubling and halving as mental division strategies Use efficient chunking to divide numbers ≤ 1000 by 1-digit numbers. Find unit fractions of 2 and 3-diigt numbers
Y 6	Addition	Know by heart number bonds to 100 and use these to derive related facts. (E.g. 3.46 + 0.54 = 4) Derive quickly and without difficulty, number bonds to 1000 Add small and large whole numbers where the use of place value or number facts makes the calculation doable 'in our heads'. (E.g. 34,000 + 8000.) Add multiples of powers of ten and near multiples of the same. (E.g. 6345 + 199.) Add negative numbers in a context such as temperature where the numbers make sense. Add two 1-place decimal numbers or two 2-place decimal numbers less than	Use column addition to add numbers with up to 5 digits. Use column addition to add decimal numbers with up to 3-digits Add mixed numbers and fractions with different denominators.	Derive swiftly and without difficulty, number bonds to 100 Use place value and number facts to add friendly large or decimal numbers, e.g. 3.4 + 6.6 or 26,000 + 5,400 Use column addition to add numbers with up to 4-digits. Use column addition to add pairs of two-place decimal numbers.

	1/5 ~ 45 + 62 ~ 0.74 + 0.22)		
Subtraction	1 (E.g. $4.5 + 6.3$ or $0.74 + 0.33$) Add positive numbers to negative numbers, e.g. calculate a rise in temperature, or continue a sequence beginning with a negative number Use number bonds to 100 to perform mental subtraction of any pair of integers by complementary addition. (E.g. $1000 - 654$ as $46 + 300$ in our heads Use number bonds to 1 and 10 to perform mental subtraction of any pair of one-place or two-place decimal numbers using complementary addition and including money. (E.g. $10 - 3.65$ as $0.35 + 6$, $£50 - £34.29$ as $71p + £15$) Use number facts and place value to perform mental subtraction of large numbers or decimal numbers with up to two places. (E.g. $467,900 - 3,005$ or $4.63 - 1.02$) Subtract multiples of powers of ten and near multiples of the same. Subtract negative numbers in a context such as temperature where the	Use column subtraction to subtract numbers with up to 6 digits. Use complementary addition for subtractions where the larger number is a multiple or near multiple of 1000 or 10,000. Use complementary addition for subtractions of decimal numbers with up to three places including money. Subtract mixed numbers and fractions with different denominators.	Use number bonds to 100 to perform mental subtraction of numbers up to 1000 by complementary addition. (E.g. $1000 - 654$ as $46 + 300$ in our heads.) Use complementary addition for subtraction of integers up to $10,000$. E.g. $2504 - 1878$ as $ \begin{array}{ccccccccccccccccccccccccccccccccccc$
Multiplication	Know by heart all the multiplication facts up to 12 x 12. Multiply whole numbers and decimals with up to three places by 10, 100 or 1000, e.g. 234 x 1000 = 234,000 and 0.23 x 1000 = 230) Identify common factors, common multiples and prime numbers and use factors in mental multiplication. (E.g. 326 x 6 is 652 x 3 which is 1956) Use place value and number facts in mental multiplication. (E.g. 40,000 x 6 = 24,000 and 0.03 x 6 = 0.18) Use doubling and halving as mental multiplication strategies, including to multiply by 2, 4, 8, 5, 20, 50 and 25	Use short multiplication to multiply a 1-digit number by a number with up to 4 digits Use long multiplication to multiply a 2-digit by a number with up to 4 digits Use short multiplication to multiply a 1-digit number by a number with one or two decimal places, including amounts of money. Multiply fractions and mixed numbers by whole numbers. Multiply fractions by proper fractions. Use percentages for comparison and calculate simple percentages.	Know by heart all the multiplication facts up to 12 x 12. Multiply whole numbers and one-and two-place decimals by 10, 100 and 1000. Use an efficient written method to multiply a one-digit or a teens number by a number with up to 4-digits by partitioning (grid method). Multiply a one-place decimal number up to 10 by a number ≤100 using grid method.

	(E.g. 28 x 25 is ¼ of 28 x 100 = 700) Use rounding in mental multiplication. (34 x 19 as (20 x 34) – 34) Multiply one and two-place decimals by numbers up to and including 10 using place value and partitioning. (E.g. 3.6 x 4 is 12 + 2.4 or 2.53 x 3 is 6 + 1.5 + 0.09) Double decimal numbers with up to 2 places using partitioning e.g. 36·73 doubled is double 36 (72) plus double 0·73 (1·46)		
Division	Know by heart all the division facts up to $144 \div 12$. Divide whole numbers by powers of 10 to give whole number answers or answers with up to three decimal places. Identify common factors, common multiples and prime numbers and use factors in mental division. (E.g. $438 \div 6$ is $219 \div 3$ which is 73) Use tests for divisibility to aid mental calculation. Use doubling and halving as mental division strategies, e.g. to divide by 2, 4, 8, 5, 20 and 25. (E.g. $628 \div 8$ is halved three times: 314 , 157 , 78.5) Divide one and two place decimals by numbers up to and including 10 using place value. (E.g. $2.4 \div 6 = 0.4$ or $0.65 \div 5 = 0.13$, $£6.33 \div 3 = £2.11$) Halve decimal numbers with up to 2 places using partitioning e.g. Half of 36.86 is half of 36 (18) plus half of 0.86 (0.43) Know and use equivalence between simple fractions, decimals and percentages, including in different contexts. Recognise a given ratio and reduce a given ratio to its lowest terms.	Use short division to divide a number with up to 4 digits by a 1-digit or a 2-digit number Use long division to divide 3-digit and 4-digit numbers by 'friendly' 2-digit numbers. Give remainders as whole numbers or as fractions or as decimals Divide a one-place or a two-place decimal number by a number ≤ 12 using multiples of the divisors. Divide proper fractions by whole numbers.	Know by heart all the division facts up to $144 \div 12$. Divide whole numbers by 10, 100, 1000 to give whole number answers or answers with up to two decimal places. Use efficient chunking involving subtracting powers of 10 times the divisor to divide any number of up to 1000 by a number ≤ 12 . (E.g. $836 \div 11$ as $836 - 770$ ($70x11$) leaving 66 which is $6x11$. So that we have $70 + 6 = 76$ as the answer). Divide a one-place decimal by a number ≤ 10 using place value and knowledge of division facts.