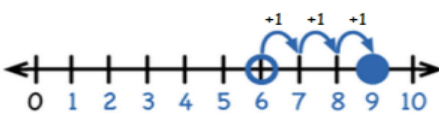

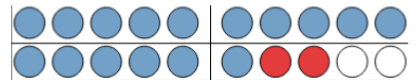
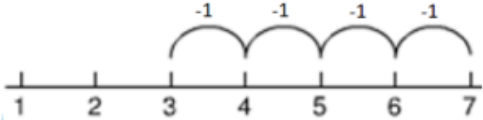
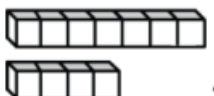



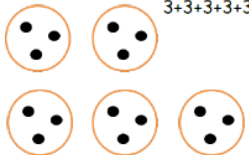

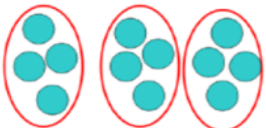
St Catherine Calculation policy

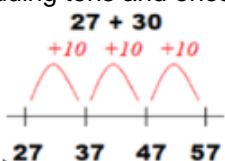
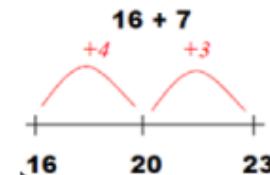
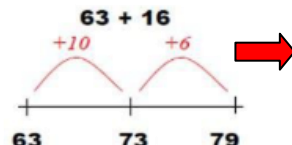
KEY STAGE 1			
Children in Years 1 and 2 will be given a really solid foundation in the basic building blocks of mental and written arithmetic. Through being taught place value, children will develop an understanding of how numbers work, so that they are confident with 2-digit numbers and beginning to read and say numbers above 100.			
<p>Addition and Subtraction: A focus on number bonds, first via practical hands-on experiences and subsequently using memorisation techniques, enables a good grounding in these crucial facts, and ensures that all children leave Year 2 knowing the pairs of numbers which make all the numbers up to 10 at least. Children will also have experienced and been taught pairs to 20. Children's knowledge of number facts enables them to add several 1-digit numbers, and to add/subtract a 1-digit number to/from a 2-digit number. Another important conceptual tool is the ability to add/subtract 1 or 10, and to understand which digit changes and why. This understanding is extended to enable children to add and subtract multiples of 10 to and from any 2-digit number. The most important application of this knowledge is the ability to add or subtract any pair of 2-digit numbers by counting on or back in 10s and 1s. Children may extend this to adding by partitioning numbers into 10s and 1s.</p>	<p>Multiplication and Division: Children will be taught to count in 2s, 3s, 5s and 10s, and will relate this skill to repeated addition. Children will meet and begin to learn the associated $\times 2$, $\times 3$, $\times 5$ and $\times 10$ tables. Engaging in a practical way with the concept of repeated addition and the use of arrays enables children to develop a preliminary understanding of multiplication, and asking them to consider how many groups of a given number make a total will introduce them to the idea of division. Children will also be taught to double and halve numbers, and will thus experience scaling up or down as a further aspect of multiplication and division.</p>	<p>Fractions: Fractions will be introduced as numbers and as operators, specifically in relation to halves, quarters and thirds.</p>	
Year 1			
	Mental calculation	Written/ informal calculation methods	Default for ALL children

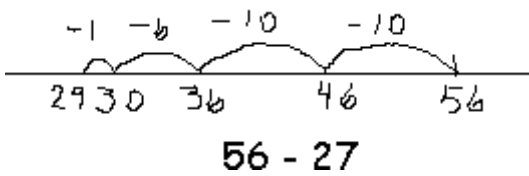
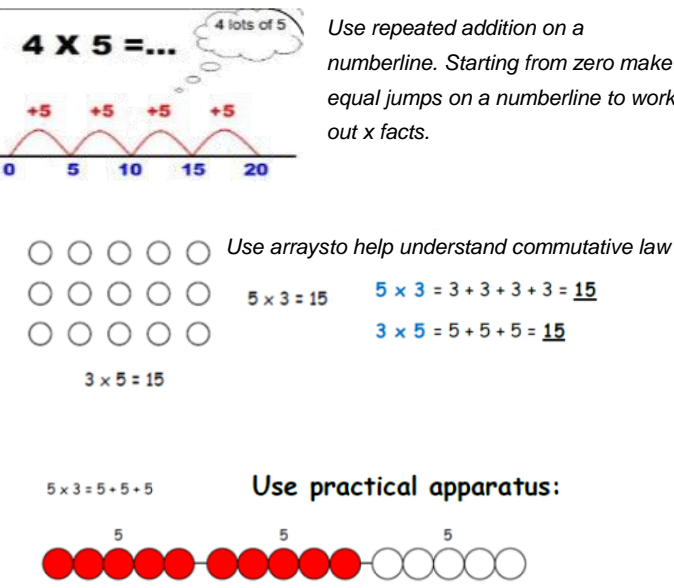
St Catherine Calculation policy

<p>Y1 +</p>	<p>Number bonds ('story' of 5, 6, 7, 8, 9 and 10) Count on in 1s from a given 2-digit number Add two 1-digit numbers Add three 1-digit numbers, spotting doubles or pairs to 10 Count on in 10s from any given 2-digit number Add 10 to any given 2-digit number Use number facts to add 1-digit numbers to 2-digit numbers e.g. Use $4 + 3$ to work out $24 + 3$, $34 + 3$ Add by putting the larger number first</p>	<p>$6 + 3 = 9$</p>  <p>$8 + 5$</p>  <p>Bead string used to show bridging through 10 by counting on 2 then counting on 3 more</p>  <p>$16 + 2 = 18$</p> <p>Resources: number lines, hundred squares, counting object, bead strings/ bead bars, 20 frames, Numicon, pegs on hangers, unifix cubes</p>	<p>Pairs with a total of 10 Count in 1s Count in 10s Count on 1 from any given 2-digit number</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line</p>
<p>Y1 -</p>	<p>Number bonds ('story' of 5, 6, 7, 8, 9 and 10) Count back in 1s from a given 2-digit number Subtract one 1-digit number from another Count back in 10s from any given 2-digit number Subtract 10 from any given 2-digit number Use number facts to subtract 1-digit numbers from 2-digit numbers e.g. Use $7 - 2$ to work out $27 - 2$, $37 - 2$ Use of counting on to subtract near numbers e.g $19 - 16$ Using knowledge of number bonds to solve subtraction calculations e.g $17 - 9$ (9 is $7 + 2$ so we can subtract the 7 then the further 2 to arrive at our answer) so $17 - 9 = 17 - 7 - 2 = 8$ Find 'the distance' between two numbers in a range of familiar contexts e.g I am 2 yrs older than my sister</p>	<p>$7 - 4 = 3$</p>   <p>7 Seven is 3 more than four 4</p> <p>Resources: numberlines, 20 frames, bead strings, hundred squares, unifix cubes</p>	<p>Pairs with a total of 10 and all numbers to 10 Count back in 1s from 20 to 0 Count back in 10s from 100 to 0 Count back 1 from any given 2-digit number</p> <p>Vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_?</p>

St Catherine Calculation policy

<p>Y1 ×</p>	<p>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. Multiply with concrete objects, arrays and pictorial representations. Double numbers to 10</p>	<p>How many legs will 3 teddies have?</p>  <p>$2 + 2 + 2 = 6$</p> <p>There are 3 sweets in one bag. How many sweets are in 5 bags altogether?</p>  <p>$3+3+3+3+3 = 15$</p> <p>Resources: Practical objects, money (2p, 5p, 10p)</p>	<p>Begin to count in 2s 5s and 10s Double numbers to 5 using fingers</p> <p>Vocabulary: groups of , lots of, times, array, altogether, multiply, count</p>
<p>Y1 ÷</p>	<p>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 (grouping and sharing)</p>	<p>How many groups of 4 can be made with 12 stars? = 3</p> <p>Grouping:</p>  <p>Sharing:</p>  <p>$4 \quad 4 \quad 4$</p> <p>12 shared between 3 is 4</p> <p>Resources: practical apparatus, counting hoops</p>	<p>Begin to count in 2s, 5s and 10s Find half of even numbers by sharing</p> <p>Vocabulary: share, share equally, one each, two each..., group, groups of, lots of, array</p>

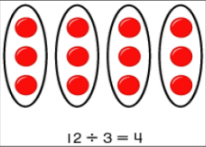
Year 2																																											
	Mental calculation	Written/ informal calculation methods	Default for ALL children																																								
<p>Y2 +</p>	<p>Number bonds – know all the pairs of numbers which make all the numbers to 12, and pairs with a total of 20</p> <p>Count on in 1s and 10s from any given 2-digit number</p> <p>Add two or three 1-digit numbers</p> <p>Add a 1-digit number to any 2-digit number using number facts, including bridging multiples of 10 e.g. $45 + 4$ e.g. $38 + 7$</p> <p>Add 10 and small multiples of 10 to any given 2-digit number</p> <p>Add any pair of 2-digit numbers</p>	<p>Use blank numberlines to support moving on to expanded method of column addition once secure adding tens and ones</p> <p>27 + 30</p>  <p>16 + 7</p>  <p>63 + 16</p>  <p>23 + 34:</p> <table border="1" data-bbox="1187 606 1433 750"> <tr><td>2</td><td>0</td><td>+</td><td>3</td><td></td></tr> <tr><td>+</td><td>3</td><td>0</td><td>+</td><td>4</td></tr> <tr><td></td><td>5</td><td>0</td><td>+</td><td>7</td></tr> <tr><td></td><td></td><td></td><td>=</td><td><u>57</u></td></tr> </table> <p>Once children can add a multiple of ten to a 2-digit number mentally (e.g. $80+11$), they are ready for adding pairs of 2-digit numbers that DO cross the tens boundary (e.g. $58 + 43$).</p> <p>58 + 43:</p> <table border="1" data-bbox="1187 829 1411 1005"> <tr><td>5</td><td>0</td><td>+</td><td>8</td><td></td></tr> <tr><td>4</td><td>0</td><td>+</td><td>3</td><td></td></tr> <tr><td>9</td><td>0</td><td>+</td><td>11</td><td></td></tr> <tr><td></td><td></td><td></td><td>=</td><td><u>101</u></td></tr> </table> <p>Resources: number lines, hundred squares, bead strings/ bead bars, 20 frames, Numicon, base 10 apparatus, money, place value arrow cards</p>	2	0	+	3		+	3	0	+	4		5	0	+	7				=	<u>57</u>	5	0	+	8		4	0	+	3		9	0	+	11					=	<u>101</u>	<p>Know pairs of numbers which make each total up to 10, and begin to know pairs of numbers to make 20</p> <p>Add three 1-digit numbers</p> <p>Add a 1-digit number to a 2-digit number by counting on in 1s</p> <p>Add 10 and small multiples of 10 to a 2-digit number by counting on in 10s</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones, partition, addition, column, tens boundary</p>
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9	0	+	11																																								
			=	<u>101</u>																																							

<p>Y2 -</p>	<p>Number bonds – know all the pairs of numbers which make all the numbers to 12 Count back in 1s and 10s from any given 2-digit number Subtract a 1-digit number from any 2-digit number using number facts, including bridging multiples of 10 e.g. $56 - 3$ e.g. $53 - 5$ Subtract 10 and small multiples of 10 from any given 2-digit number Subtract any pair of 2-digit numbers by counting back in 10s and 1s or by counting up</p>	 <p>Base 10 apparatus scaffolded progress</p> <p>Resources: Hundred squares, numberlines, blank numberlines, base 10 apparatus</p>	<p>Know pairs of numbers which make each total up to 10 Subtract a 1-digit number from a 2-digit number by counting back in 1s Subtract 10 and small multiples of 10 from a 2-digit number by counting back in 10s Subtract tens and ones using a blank numberline</p> <p>Vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back , how many left, how much less is_? , difference, count on, strategy, partition, tens, ones</p>
<p>Y2 ×</p>	<p>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. 3×4 is three rows of 4 dots Begin to learn the $\times 2$, $\times 3$, $\times 5$ and $\times 10$ tables, seeing these as 'lots of' e.g. 5 lots of 2, 6 lots of 2, 7 lots of 2 Double numbers up to 20 Begin to double multiples of 5 to 100 Begin to double 2-digit numbers less than 50 with 1s digits of 1, 2, 3, 4 or 5</p>	 <p>$4 \times 5 = \dots$ Use repeated addition on a numberline. Starting from zero make equal jumps on a numberline to work out \times facts.</p> <p>Use arrays to help understand commutative law</p> <p>$5 \times 3 = 15$ $5 \times 3 = 3 + 3 + 3 + 3 = 15$</p> <p>$3 \times 5 = 15$ $3 \times 5 = 5 + 5 + 5 = 15$</p> <p>$5 \times 3 = 5 + 5 + 5$ Use practical apparatus:</p>	<p>Count in 2s, 5s and 10s Begin to use and understand simple arrays e.g. 2×4 is two lots of four Double numbers up to 10 Double multiples of 10 to 50</p> <p>Vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times, as big as, once, twice, three times...</p>

Y2
÷

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 2s*
 Relate division to grouping and sharing using the ÷ and = sign
 Use objects, arrays, diagrams and pictorial representations
 Halve numbers to 20
 Begin to halve numbers to 40 and multiples of 10 to 100
 Find $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{3}{4}$ of a quantity of objects and of amounts (whole number answers)

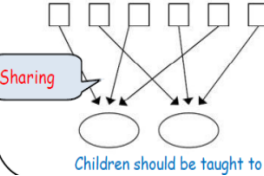
Arrays:




This represents $12 \div 3$, posed as how many groups of 3 are in 12?

Pupils should also show that the same array can represent $12 \div 4 = 3$ if grouped horizontally.

Know and understand sharing and grouping:
 6 sweets shared between 2 people, how many do they each get?



There are 6 sweets, how many people can have 2 sweets each?



Children should be taught to recognise whether problems require sharing or grouping.

Resources: practical apparatus, counting hoops

Count in 2s, 5s and 10s
 Say how many rows in a given array
 e.g. *How many rows of 5 are in an array of*
3 x 5?
 Halve numbers to 12
 Find $\frac{1}{2}$ of amounts

Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over

LOWER KEY STAGE 2

In Lower Key Stage 2, children build on the concrete and conceptual understandings they have gained in Key Stage 1 to develop a real mathematical understanding of the four operations, in particular developing arithmetical competence in relation to larger numbers.

Addition and subtraction: Children are taught to use place value and number facts to add and subtract numbers mentally and they will develop a range of strategies to enable them to discard the 'counting in 1s' or fingers-based methods of Key Stage 1. In particular, children 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.

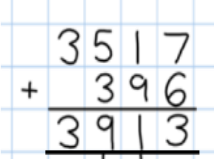
Multiplication and division: This key stage is also the period during which all the multiplication and division facts are thoroughly memorised, including all facts up to 12×12 . Efficient written methods for multiplying or dividing a 2-digit or 3-digit number by a 1-digit number are taught, as are mental strategies for multiplication or division with large but 'friendly' numbers, e.g. when dividing by 5 or multiplying by 20.

Fractions and decimals: 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 1-place decimals, multiplying and dividing whole numbers by 10 and 100.

Year 3																																	
	Mental calculation	Written calculation	Default for ALL children																														
Y3 +	<p>Know pairs with each total to 20 e.g. $2 + 6 = 8$, $12 + 6 = 18$, $7 + 8 = 15$</p> <p>Know pairs of multiples of 10 with a total of 100</p> <p>Add any two 2-digit numbers by counting on in 10s and 1s or by using partitioning</p> <p>Add multiples and near multiples of 10 and 100</p> <p>Perform place-value additions without a struggle e.g. $300 + 8 + 50 = 358$</p> <p>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 $6 + 4 = 10$ $676 + 8$ is 684 since $8 = 4 + 4$ and $76 + 4 + 4 = 84$</p> <p>Add pairs of 'friendly' 3-digit numbers e.g. $320 + 450$</p> <p>Begin to add amounts of money using partitioning</p>	<p>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 3 digits</p> <table style="border-collapse: collapse; margin-bottom: 10px;"> <tr> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">3</td> <td style="border: 1px solid black; padding: 2px;">6</td> <td rowspan="4" style="padding-left: 10px; vertical-align: middle;"> <i>Add the ones first in preparation for compact method</i> </td> <td rowspan="4" style="padding-left: 10px; vertical-align: middle;"> 236 $+ 73$ $\underline{309}$ <small>1</small> </td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">+</td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">7</td> <td style="border: 1px solid black; padding: 2px;">3</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">9</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">1</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">0</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">2</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td></td> <td></td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;"> </td> <td style="border: 1px solid black; padding: 2px;">3</td> <td style="border: 1px solid black; padding: 2px;">0</td> <td style="border: 1px solid black; padding: 2px;">9</td> <td></td> <td></td> </tr> </table> <p>Begin to add like fractions e.g. $\frac{3}{8} + \frac{1}{8} + \frac{1}{8}$</p> <p>Recognise fractions that add to 1 e.g. $\frac{1}{4} + \frac{3}{4}$ e.g. $\frac{3}{5} + \frac{2}{5}$</p> <p>Resources: 100/200 square, place value arrow cards, base 10 apparatus, number lines</p>		2	3	6	<i>Add the ones first in preparation for compact method</i>	236 $+ 73$ $\underline{309}$ <small>1</small>	+		7	3				9		1	0	0		2	0	0				3	0	9			<p>Know pairs of numbers which make each total up to 10, and which total 20</p> <p>Add two 2-digit numbers by counting on in 10s and 1s e.g. $56 + 35$ is $56 + 30$ and then add the 5</p> <p>Understand simple place-value additions e.g. $200 + 40 + 5 = 245$</p> <p>Use place value to add multiples of 10 or 100</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones, partition, plus, addition, column, tens boundary, hundreds boundary, increase, vertical, 'carry', expanded, compact</p>
	2	3	6	<i>Add the ones first in preparation for compact method</i>	236 $+ 73$ $\underline{309}$ <small>1</small>																												
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St Catherine Calculation policy

<p>Y3 ×</p>	<p>Know by heart all the multiplication facts in the x2, x3, x4, x5, x8 and x10 tables Multiply whole numbers by 10 and 100 Recognise that multiplication is commutative Use place value and number facts in mental multiplication e.g. 30×5 is 15×10 Partition teen numbers to multiply by a 1-digit number e.g. 3×14 as 3×10 and 3×4 Double numbers up to 50</p>	<p>Use partitioning to multiply 2-digit and 3-digit numbers by 'friendly' 1-digit numbers Begin with horizontal methods moving to formal expanded then compact vertical methods</p> <p> $45 \times 3 =$ $3 \times 5 = 15$ → <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td>4</td><td>5</td><td></td></tr><tr><td>x</td><td></td><td>3</td><td></td></tr><tr><td colspan="4"><hr/></td></tr><tr><td></td><td>1</td><td>5</td><td>(3x5)</td></tr><tr><td></td><td>1</td><td>2</td><td>0 (3x40)</td></tr><tr><td></td><td>1</td><td>3</td><td>5</td></tr></table> → <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td></td><td>4</td><td>5</td></tr><tr><td>x</td><td></td><td></td><td>3</td></tr><tr><td colspan="4"><hr/></td></tr><tr><td></td><td>1</td><td>3</td><td>5</td></tr></table> </p> <p> $3 \times 40 = 120$ $120 + 15 = 135$ $45 \times 3 = 135$ </p>		4	5		x		3		<hr/>					1	5	(3x5)		1	2	0 (3x40)		1	3	5			4	5	x			3	<hr/>					1	3	5	<p>Know by heart the x2, x3, x5 and x10 tables Double given tables facts to get others Double numbers up to 25 and multiples of 5 to 50</p> <p>Vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, times, _times, as big as, once, twice, three times..., partition, expanded/compact method, multiple, product, tens, ones, value</p>
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<p>Y3 ÷</p>	<p>Know by heart all the division facts derived from the x2, x3, x4, x5, x8 and x10 tables Divide whole numbers by 10 or 100 to give whole number answers Recognise that division is not commutative Use place value and number facts in mental division e.g. $84 \div 4$ is half of 42 Divide larger numbers mentally by subtracting the 10th multiple as appropriate, including those with remainders e.g. $57 \div 3$ is $10 + 9$ as $10 \times 3 = 30$ and $9 \times 3 = 27$ Halve even numbers to 100, halve odd numbers to 20</p>	<p>Once children are secure with division as grouping and demonstrate this using number lines, arrays etc., short division for larger 2-digit numbers should be introduced:</p> <p> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td></td><td>3</td><td>2</td></tr><tr><td>3</td><td>9</td><td>6</td></tr></table> → $4 \overline{) 732}$ </p> <p>Once confident move on to remainders within the calculation</p> <p>Find unit fractions of quantities and begin to find non-unit fractions of quantities</p>		3	2	3	9	6	<p>Know by heart the division facts derived from the x2, x3, x5 and x10 tables Halve even numbers up to 50 and multiples of 10 to 100 Perform divisions within the tables including those with remainders e.g. $38 \div 5$</p> <p>Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse, short division, carry, remainder, multiple</p>																																		
	3	2																																									
3	9	6																																									

Year 4			
	Mental calculation	Written calculation	Default for ALL children
Y4 +	<p>Add any two 2-digit numbers by partitioning or counting on</p> <p>Know by heart/quickly derive number bonds to 100 and to £1</p> <p>Add to the next 100, £1 and whole number</p> <p>e.g. $234 + 66 = 300$</p> <p>e.g. $3.4 + 0.6 = 4$</p> <p>Perform place-value additions without a struggle</p> <p>e.g. $300 + 8 + 50 + 4000 = 4358$</p> <p>Add multiples and near multiples of 10, 100 and 1000</p> <p>Add £1, 10p, 1p to amounts of money</p> <p>Use place value and number facts to add 1-, 2-, 3- and 4-digit numbers where a mental calculation is appropriate</p> <p>e.g. $4004 + 156$ by knowing that $6 + 4 = 10$ and that $4004 + 150 = 4154$ so the total is 4160</p>	<p>Compact method of column addition for 3-digit and 4-digit numbers adding ones first and 'carrying' numbers underneath the calculation.</p>  <p>Add like fractions</p> <p>e.g. $\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1\frac{2}{5}$</p> <p>Be confident with fractions that add to 1 and fraction complements to 1</p> <p>e.g. $\frac{2}{3} + _ = 1$</p> <p>Resources: place value arrow cards, base 10 apparatus</p>	<p>Add any 2-digit numbers by partitioning or counting on</p> <p>Number bonds to 20</p> <p>Know pairs of multiples of 10 with a total of 100</p> <p>Add 'friendly' larger numbers using knowledge of place value and number facts</p> <p>Use expanded column addition to add 3-digit numbers</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones, partition, plus, addition, column, tens boundary, hundreds boundary, increase, vertical, 'carry', expanded, compact, thousands, hundreds, digits, inverse</p>

St Catherine Calculation policy

Y4

Subtract any two 2-digit numbers
 Know by heart/quickly derive number bonds to 100
 Perform place-value subtractions without a struggle
 e.g. $4736 - 706 = 4030$
 Subtract multiples and near multiples of 10, 100, 1000, £1 and 10p
 Subtract multiples of 0.1
 Subtract by counting up on a numberline
 e.g. $503 - 368$ is done by adding
 $368 + 2 + 30 + 100 + 3$ (so we added 135)
 Subtract, when appropriate, by counting back or taking away, using place value and number facts
 Subtract £1, 10p, 1p from amounts of money
 Find change from £10, £20 and £50

Continue to use expanded column subtraction for 3 and 4 digit numbers (see below) if pupils are struggling. Most pupils will be using formal 'compact' methods

$$\begin{array}{r} 2754 - 1562 = 1192 \\ 2000 + \cancel{700} + 50 + 4 \\ - 1000 + 500 + 60 + 2 \\ \hline 1000 + 100 + 90 + 2 \end{array}$$

$$\begin{array}{r} 2754 \\ - 1562 \\ \hline 1192 \end{array}$$

Use complementary addition to subtract amounts of money, and for subtractions where the larger number is a near multiple of 1000 or 100

e.g. $2002 - 1865$

Subtract like fractions

e.g. $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$

Use fractions that add to 1 to find fraction complements to 1

e.g. $1 - \frac{2}{3} = \frac{1}{3}$

Resources: base 10 apparatus

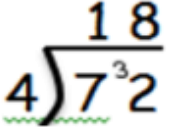
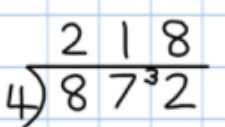
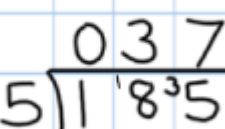
Use counting up with confidence to solve most subtractions, including finding complements to multiples of 100

e.g. $512 - 287$

e.g. $67 + _ = 100$

Vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_?, difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, **inverse**

St Catherine Calculation policy

<p>Y4 ÷</p>	<p>Know by heart all the division facts up to $144 \div 12$</p> <p>Divide whole numbers by 10, 100, to give whole number answers or answers with 1 decimal place</p> <p>Divide multiples of 100 by 1-digit numbers using division facts e.g. $3200 \div 8 = 400$</p> <p>Use place value and number facts in mental division e.g. $245 \div 20$ is half of $245 \div 10$</p> <p>Divide larger numbers mentally by subtracting the 10th or 20th multiple as appropriate e.g. $156 \div 6$ is $20 + 6$ as $20 \times 6 = 120$ and $6 \times 6 = 36$</p> <p>Find halves of even numbers to 200 and beyond using partitioning</p> <p>Begin to halve amounts of money e.g. half of $\pounds 52.40$ is $\pounds 26.20$</p>	<p>Use a written method to divide a 2-digit or a 3-digit number by a 1-digit number</p> <p>Give remainders as whole numbers</p>  <p><i>Pupils must be secure with the process of short division for dividing 2-digit numbers by a single digit but must understand how to calculate remainders, using this to carry remainders within the calculation process</i></p>  <p><i>Pupils move onto dividing numbers with up to 3-digits by a single digit, however, problems and calculations provided should not result in a final answer with remainder at this stage.</i></p>  <p><i>When the answer for the first column is zero ($1 \div 5$, as in example), children could initially write a zero above to acknowledge its place, and must always carry the number (1) over to the next digit as a remainder.</i></p> <p>Begin to reduce fractions to their simplest forms</p> <p>Find unit and non-unit fractions of larger amounts</p>	<p>Know by heart all the division facts up to $100 \div 10$</p> <p>Divide whole numbers by 10 and 100 to give whole number answers or answers with 1 decimal place</p> <p>Perform divisions just above the 10th multiple using the written layout and understanding how to give a remainder as a whole number</p> <p>Find unit fractions of amounts</p> <p>Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse, short division, 'carry', remainder, multiple, divisible by, factor</p>
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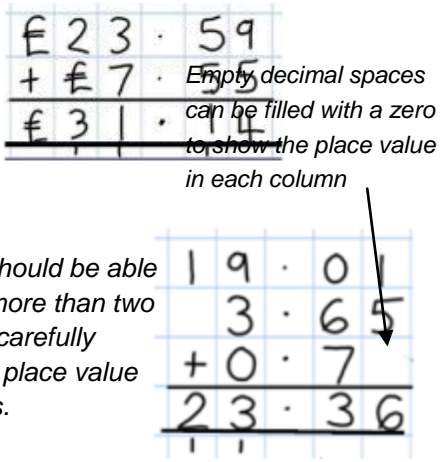
UPPER KEY STAGE 2

Children move on from dealing mainly with whole numbers to performing arithmetic operations with both decimals and fractions.

Addition and subtraction: Children 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 3 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. Negative numbers will be added and subtracted.

Multiplication and division: 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 Years 5 and 6 that children extend their knowledge and confidence in using written algorithms for multiplication and division.

Fractions, decimals, percentages and ratio: Fractions and decimals are also added, subtracted, divided and multiplied, within the bounds of children's understanding of these more complicated numbers. Children will also calculate simple percentages and ratios.

Year 5			
	Mental calculation	Written calculation	Default for ALL children
Y5 +	<p>Know number bonds to 1 and to the next whole number</p> <p>Add to the next 10 from a decimal number e.g. $13.6 + 6.4 = 20$</p> <p>Add numbers with 2 significant digits only, using mental strategies e.g. $3.4 + 4.8$ e.g. $23\ 000 + 47\ 000$</p> <p>Add 1- or 2-digit multiples of 10, 100, 1000, 10 000 and 100 000 e.g. $8000 + 7000$ e.g. $600\ 000 + 700\ 000$</p> <p>Add near multiples of 10, 100, 1000, 10 000 and 100 000 to other numbers e.g. $82\ 472 + 30\ 004$</p> <p>Add decimal numbers which are near multiples of 1 or 10, including money e.g. $6.34 + 1.99$ e.g. $£34.59 + £19.95$</p> <p>Use place value and number facts to add two or more 'friendly' numbers, including money and decimals e.g. $3 + 8 + 6 + 4 + 7$ e.g. $0.6 + 0.7 + 0.4$ e.g. $2056 + 44$</p>	<p>Use column addition to add two or three whole numbers with up to 5 digits</p> <p>Use column addition to add any pair of 2-place decimal numbers, including amounts of money</p>  <p>Begin to add related fractions using equivalences e.g. $\frac{1}{2} + \frac{1}{6} = \frac{3}{6} + \frac{1}{6}$</p> <p>Choose the most efficient method in any given situation</p>	<p>Add numbers with only 2 digits which are not zeros e.g. $3.4 + 5.8$</p> <p>Derive swiftly and without any difficulty number bonds to 100</p> <p>Add 'friendly' large numbers using knowledge of place value and number facts</p> <p>Use column addition to add pairs of 4 and 5 digit numbers</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones, partition, plus, addition, column, tens boundary, hundreds boundary, increase, 'carry', expanded, compact, vertical, thousands, hundreds, digits, inverse & decimal places, decimal point, tenths, hundredths, thousandths</p>

St Catherine Calculation policy

Y5

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Subtract numbers with 2 significant digits only, using mental strategies

e.g. $6.2 - 4.5$

e.g. $72\,000 - 47\,000$

Subtract 1- or 2-digit multiples of 10, 100, 1000, 10 000 and 100 000

e.g. $8000 - 3000$

e.g. $600\,000 - 200\,000$

Subtract 1- or 2-digit near multiples of 10, 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. $6.34 - 1.99$

e.g. $£34.59 - £19.95$

Use counting up subtraction, with knowledge of number bonds to 10, 100 or £1, as a strategy to perform mental subtraction

e.g. $£10 - £3.45$

e.g. $1000 - 782$

Recognise fraction complements to 1 and to the next whole number

e.g. $1\frac{2}{5} + \frac{3}{5} = 2$

Use compact column subtraction to subtract numbers with up to 5 digits including decimals including mixtures of integers and decimals.

Decimal points to have own square.

$$\begin{array}{r} \overset{2}{\cancel{8}} \overset{10}{\cancel{1}} \overset{0}{\cancel{0}} \overset{4}{\cancel{8}} \overset{6}{\cancel{6}} \\ - \quad \quad 2 \quad 1 \quad 2 \quad 8 \\ \hline 2 \quad 8, \quad 9 \quad 2 \quad 8 \end{array}$$

$$\begin{array}{r} \overset{6}{\cancel{7}} \overset{10}{\cancel{1}} \overset{6}{\cancel{6}} \overset{8}{\cancel{8}} \cdot \overset{0}{\cancel{0}} \\ - \quad \quad 3 \quad 7 \quad 2 \cdot 5 \\ \hline 6 \quad 7 \quad 9 \quad 6 \cdot 5 \end{array}$$

Use complementary addition for subtractions where the larger number is a multiple or near multiple of 1000

Use complementary addition for subtractions of decimal numbers with up to 2 places, including amounts of money

Begin to subtract related fractions using equivalences

e.g. $\frac{1}{2} - \frac{1}{6} = \frac{2}{6}$

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. $3000 - 2387$

Vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_?, difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, inverse, **tenths, hundredths, decimal point, decimal**

St Catherine Calculation policy

Y5
x

Know by heart all the multiplication facts up to 12×12

Multiply whole numbers and 1- and 2-place decimals by 10, 100, 1000, 10 000

Use knowledge of factors and multiples in multiplication

e.g. 43×6 is double 43×3

e.g. 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. 58×5 is half of 58×10

e.g. 34×4 is 34 doubled twice

Partition 2-digit numbers, including decimals, to multiply by a 1-digit number mentally

e.g. 6×27 as 6×20 (120) plus 6×7 (42)

e.g. 6.3×7 as 6×7 (42) plus 0.3×7 (2.1)

Double amounts of money by partitioning

e.g. $\pounds 37.45$ doubled is $\pounds 37$ doubled ($\pounds 74$) plus $45p$ doubled (90p) giving a total of $\pounds 74.90$

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 numbers by a number between 11 and 20

Choose the most efficient method in any given situation

$$\begin{array}{r} 3652 \\ \times \quad 8 \\ \hline 29216 \end{array}$$

	1	8
\times	1	3
	5	4
	2	
1	8	0
2	3	4

$$\begin{array}{r} 1234 \\ \times \quad 16 \\ \hline 7404 \\ 12340 \\ \hline 19744 \end{array}$$

Zero to show we are multiplying by tens

(1234 \times 6)

(1234 \times 10)

Find simple percentages of amounts

e.g. 10%, 5%, 20%, 15% and 50%

Begin to multiply fractions and mixed numbers by whole numbers ≤ 10

e.g. $4 \times \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$

Know multiplication tables to 11×11

Multiply whole numbers and 1-place decimals by 10, 100 and 1000

Use knowledge of factors as aids to mental multiplication

e.g. 13×6 is double 13×3

e.g. 23×5 is $\frac{1}{2}$ of 23×10

Use the grid method to multiply numbers with up to 4 digits by 1-digit numbers

Use the grid method to multiply 2-digit numbers by 2-digit numbers

Vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, column, row, commutative, sets of, equal groups, _ times as big as, once, twice, three times..., partition, total, multiple, product, inverse, **square, factor, integer, decimal, short/long multiplication, 'carry'**

St Catherine Calculation policy

Y5
÷

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, as well as tests for divisibility, in mental division

e.g. $246 \div 6$ is $123 \div 3$

e.g. *We know that 525 divides by 25 and by 3*

Halve amounts of money by partitioning

e.g. $\frac{1}{2}$ of $\pounds 75.40 = \frac{1}{2}$ of $\pounds 75$ ($\pounds 37.50$) plus half of 40p (20p) which is $\pounds 37.70$

Divide larger numbers mentally by subtracting the 10th or 100th multiple as appropriate

e.g. $96 \div 6$ is $10 + 6$, as $10 \times 6 = 60$ and $6 \times 6 = 36$

e.g. $312 \div 3$ is $100 + 4$ as $100 \times 3 = 300$ and $4 \times 3 = 12$

Know tests for divisibility by 2, 3, 4, 5, 6, 9 and 25

Know square numbers and cube numbers

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

$$\begin{array}{r} 0663 \text{ r } 5 \\ 8 \overline{) 53029} \end{array}$$

Short division with remainders: Now that pupils are introduced to examples that give rise to remainder answers, division needs to have a real life problem solving context, where **pupils consider the meaning of the remainder and how to express it**, i.e. as a fraction, a decimal, or as a rounded number or value, depending upon the context of the problem.

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 $121 \div 11$

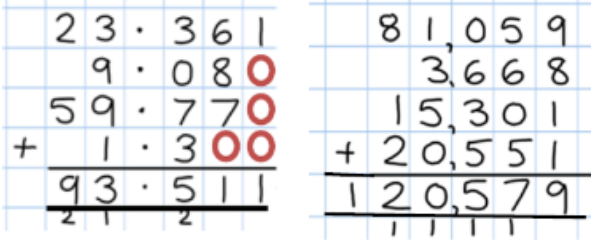
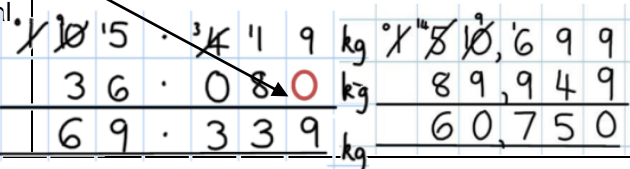
Divide whole numbers by 10, 100 or 1000 to give answers with up to 1 decimal place

Use doubling and halving as mental division strategies

Use an efficient written method to divide numbers ≤ 1000 by 1-digit numbers

Find unit fractions of 2- and 3-digit numbers

Vocabulary: share, share equally, one each, two each..., group, equal groups of, lots of, array, divide, divided by, divided into, division, grouping, number line, left, left over, inverse, short division, 'carry', remainder, multiple, divisible by, factor, inverse, **quotient, prime number, prime factors, composite number (non-prime)**

Year 6			
	Mental calculation	Written calculation	Default for ALL children
<p>Y6 +</p>	<p>Know by heart number bonds to 100 and use these to derive related facts e.g. $3 \cdot 46 + 0 \cdot 54$</p> <p>Derive, quickly and without difficulty, number bonds to 1000</p> <p>Add small and large whole numbers where the use of place value or number facts makes the calculation do-able mentally e.g. $34\,000 + 8\,000$</p> <p>Add multiples of powers of 10 and near multiples of the same e.g. $6345 + 199$</p> <p>Add negative numbers in a context such as temperature where the numbers make sense</p> <p>Add two 1-place decimal numbers or two 2-place decimal numbers less than 1 e.g. $4 \cdot 5 + 6 \cdot 3$ e.g. $0 \cdot 74 + 0 \cdot 33$</p> <p>Add positive numbers to negative numbers e.g. <i>Calculate a rise in temperature or continue a sequence beginning with a negative number</i></p>	<p>Use column addition to add several numbers with up to 5 digits</p> <p>Use column addition to add decimal numbers with up to 3 decimal places</p>  <p>Add mixed numbers and fractions with different denominators</p>	<p>Derive, swiftly and without difficulty, number bonds to 100</p> <p>Use place value and number facts to add 'friendly' large or decimal numbers e.g. $3 \cdot 4 + 6 \cdot 6$ e.g. $26\,000 + 54\,000$</p> <p>Use column addition to add numbers with up to 4-digits</p> <p>Use column addition to add pairs of 2-place decimal numbers</p> <p>Vocabulary: add, more, plus, and, make, altogether, total, equal to, equals, double, most, count on, number line, sum, tens, ones, partition, plus, addition, column, tens boundary, hundreds boundary, increase, 'carry', expanded, compact, vertical, thousands, hundreds, digits, inverse, decimal places, decimal point, tenths, hundredths, thousandths</p>
<p>Y6 -</p>	<p>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</p> <p>Use number bonds to 1 and 10 to perform mental subtraction of any pair of 1-place or 2-place decimal numbers using complementary addition and including money</p>	<p>Use column subtraction to subtract numbers with up to 6 digits including money and measures and decimals with different numbers of decimal places. Empty decimal places can be filled with zero to show the place value in each column.</p> 	<p>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</p> <p>Use complementary addition for subtraction of integers up to 10 000 e.g. $2504 - 1878$</p> <p>Use complementary addition for subtractions of 1-</p>

St Catherine Calculation policy

	<p>e.g. $10 - 3.65$ as $0.35 + 6$ e.g. $£50 - £34.29$ as $71p + £15$</p> <p>Use number facts and place value to perform mental subtraction of large numbers or decimal numbers with up to 2 places e.g. $467\,900 - 3005$ e.g. $4.63 - 1.02$</p> <p>Subtract multiples of powers of 10 and near multiples of the same</p> <p>Subtract negative numbers in a context such as temperature where the numbers make sense</p>	<p>Use complementary addition for subtractions where the larger number is a multiple or near multiple of 1000 or 10 000</p> <p>Use complementary addition for subtractions of decimal numbers with up to 3 places, including money</p> <p>Subtract mixed numbers and fractions with different denominators</p>	<p>place decimal numbers and amounts of money e.g. $£7.30 - £3.55$</p> <p>Vocabulary: equal to, take, take away, less, minus, subtract, leaves, distance between, how many more, how many fewer / less than, most, least, count back, how many left, how much less is_? difference, count on, strategy, partition, tens, ones exchange, decrease, hundreds, value, digit, inverse, tenths, hundredths, decimal point, decimal</p>																									
<p>Y6 ×</p>	<p>Know by heart all the multiplication facts up to 12×12</p> <p>Multiply whole numbers and decimals with up to 3 places by 10, 100 or 1000 e.g. $234 \times 1000 = 234\,000$ e.g. $0.23 \times 1000 = 230$</p> <p>Identify common factors, common multiples and prime numbers and use factors in mental multiplication e.g. 326×6 is 652×3 which is 1956</p> <p>Use place value and number facts in mental multiplication e.g. $4000 \times 6 = 24\,000$ e.g. $0.03 \times 6 = 0.18$</p> <p>Use doubling and halving as mental multiplication strategies, including to multiply by 2, 4, 8, 5, 20, 50 and 25 e.g. 28×25 is a quarter of $28 \times 100 = 700$</p> <p>Use rounding in mental multiplication e.g. 34×19 as $(34 \times 20) - 34$</p> <p>Multiply 1- and 2-place decimals by numbers up to and including 10 using place value and partitioning</p>	<p>Use short multiplication to multiply a 1-digit number by a number with up to 4 digits</p> <p>Use long multiplication to multiply a 2-digit number by a number with up to 4 digits</p> <p>Use short multiplication to multiply a 1-digit number by a number with 1 or 2 decimal places, including amounts of money</p> <p style="text-align: center;">multiply decimals with up to 2d.p by a single digit.</p> <div style="display: flex; align-items: center; justify-content: center;"> <table border="1" style="border-collapse: collapse; text-align: center; margin-right: 10px;"> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;">3</td><td style="width: 20px; height: 20px;">.</td><td style="width: 20px; height: 20px;">1</td><td style="width: 20px; height: 20px;">9</td></tr> <tr><td style="width: 20px; height: 20px;">x</td><td style="width: 20px; height: 20px;">8</td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr> <tr><td colspan="5" style="border-top: 1px solid black;"></td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;">2</td><td style="width: 20px; height: 20px;">5</td><td style="width: 20px; height: 20px;">.</td><td style="width: 20px; height: 20px;">52</td></tr> <tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;">1</td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;">7</td></tr> </table> <div style="background-color: #e0f0ff; padding: 5px; font-size: small;"> Line up the decimal points in the question and the answer. </div> <div style="background-color: #e0f0ff; padding: 5px; font-size: small; margin-top: 10px;"> Remind children that the single digit belongs in the units column. </div> </div> <p>Multiply fractions and mixed numbers by whole numbers</p> <p>Multiply fractions by proper fractions</p>		3	.	1	9	x	8										2	5	.	52		1			7	<p>Know by heart all the multiplication facts up to 12×12</p> <p>Multiply whole numbers and 1- and 2-place decimals by 10, 100 and 1000</p> <p>Use an efficient written method to multiply a 1-digit or a teen number by a number with up to 4 digits by partitioning (grid method)</p> <p>Multiply a 1-place decimal number up to 10 by a number ≤ 100 using the grid method</p> <p>Vocabulary: groups of, lots of, times, array, altogether, multiply, count, multiplied by, repeated addition, array, column, row, commutative, sets of, equal groups, times as big as, once, twice, three times... partition, grid method, total, multiple, product, inverse, square, factor, integer, decimal, short / long multiplication, 'carry', tenths, hundredths, decimal</p>
	3	.	1	9																								
x	8																											
	2	5	.	52																								
	1			7																								

St Catherine Calculation policy

	<p>e.g. 3.6×4 is $12 + 2.4$ e.g. 2.53×3 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)</p>	<p>Use percentages for comparison and calculate simple percentages</p>	
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St Catherine Calculation policy

Y6
÷

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 3 decimal places
 Identify common factors, common multiples and primes numbers and use factors in mental division

e.g. $816 \div 6 =$
 split the 6 into factors e.g. $2 \times 3 = 6$
 so now $816 \div 2 \div 3 = 816 \div 2 = 408$
 $408 \div 3 = 136$

Use tests for divisibility to aid mental calculation
 Use doubling and halving as mental division strategies, for example to divide by 2, 4, 8, 5, 20 and 25

e.g. $628 \div 8$ is halved three times:
 314, 157, 78.5

Divide 1 and 2 place decimals by numbers up to and including 10 using place value

e.g. $2.4 \div 6 = 0.4$
 e.g. $0.65 \div 5 = 0.13$
 e.g. $\pounds 6.33 \div 3 = \pounds 2.11$

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
 Give remainders as whole numbers or as fractions or as decimals
 Divide a 1-place or a 2-place decimal number by a number ≤ 12 using multiples of the divisors

Calculating a decimal remainder: In this example, rather than expressing the remainder as $\frac{1}{8}$, a decimal point is added after the units because there is still a remainder, and the one remainder is carried onto zeros after the decimal point (to show there was no decimal value in the original number). Keep dividing to an appropriate degree of accuracy for the problem being solved. Pupils to be instructed to extend the division line as they add zeros.

When dividing by 2 digit numbers use short division supported by informal jottings e.g. 17 x tables

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 2 decimal places

Use an efficient written method, 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 $836 - 770 (70 \times 11)$ leaving 66 which is 6×11 , giving the answer 76

Divide a 1-place decimal by a number ≤ 10 using place value and knowledge of division facts

Vocabulary: as previously, & common factor