

Washingwell Primary School



Calculation Support for Parents:

Year 4

2024 - 2025

Dear Parents,

In this booklet you will find worked examples of how we teach and use calculation strategies within school.

The calculation support document is broken down into four sections: addition, subtraction, multiplication and division.

At the beginning of each section you will find an overview of which aspects of each operation we cover across the year group.

Under each operation you will then see the progression of skills taught and worked examples of how these methods are taught within class.

We hope that by sharing these calculation methods with you, you will be able to support your child with their maths learning at home by building upon the strategies we teach in school.

Should you have any questions please do not hesitate to contact your child's teacher via their class email.

Addition



Year 4




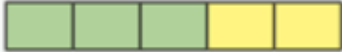
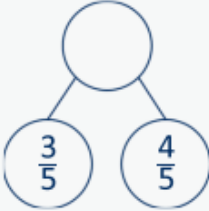
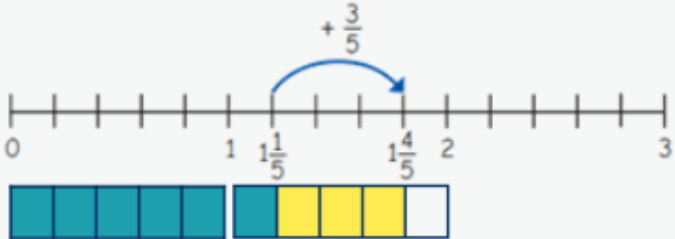
- Add 1s, 10s and 100s to a 4-digit number
- Add up to two 4-digit numbers
- Add decimal numbers in the context of money
- Add fractions and mixed numbers with the same denominator beyond 1 whole

Year 4	<ul style="list-style-type: none"> • Add numbers with up to 4 digits using a formal written method. • Solve simple measure and money problems involving fractions and decimals to 2 decimal places. • Add fractions with the same denominator.
---------------	---

Progression of skills	Key representations
------------------------------	----------------------------

<p>Add 1s, 10s and 100s to a 4-digit number</p> <p>Emphasis on mental strategies including number bonds and related facts. Prompt children to notice which digit changes.</p>	<p>The ones/tens/hundreds/thousands column will increase by ...</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th style="background-color: #d9ead3;">Thousands</th> <th style="background-color: #d9ead3;">Hundreds</th> <th style="background-color: #d9ead3;">Tens</th> <th style="background-color: #d9ead3;">Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1,000 1,000 1,000</td> <td style="text-align: center;">100 100 100 100</td> <td style="text-align: center;">10 10</td> <td style="text-align: center;">1 1 1 1 1</td> </tr> </tbody> </table> <p> $3,425 + 3 =$ $3,425 + 300 =$ $3,425 + 30 =$ $3,425 + 3,000 =$ </p>	Thousands	Hundreds	Tens	Ones	1,000 1,000 1,000	100 100 100 100	10 10	1 1 1 1 1	<p>What patterns do you notice?</p> <p> $2,350 + 3 =$ $2,350 + 30 =$ $2,350 + 300 =$ $2,350 + 3,000 =$ </p> <p> $6,040 + 200 =$ $2,211 + \square = 2,251$ $6,040 + 500 =$ $2,211 + \square = 2,215$ $6,040 + 900 =$ $2,211 + \square = 2,511$ </p>
Thousands	Hundreds	Tens	Ones							
1,000 1,000 1,000	100 100 100 100	10 10	1 1 1 1 1							

<p>Add up to two 4-digit numbers</p> <p>Formal written method with up to 3 exchanges. Encourage children to estimate and use inverse operations to check answers to calculations.</p>	<p>There are ... ones/tens/hundreds so I do/do not need to make an exchange.</p> <p>I can exchange 10 ... for 1 ...</p>		
--	---	--	---

Progression of skills	Key representations	
<p>Add decimal numbers in the context of money</p> <p>Emphasis on partitioning and use of number lines rather than formal written calculations.</p>	<p>... pence + ... pence = ... pence ... pounds + ... pounds = ... pounds</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p>45p + 25p = 70p £2 + £3 = £5 £5 + 70p = £5.70</p>	<p>£3.25 can be partitioned into £3 + 20p + 5p</p> 
<p>Add fractions and mixed numbers with the same denominator beyond 1 whole</p>	<p>When adding fractions with the same denominator, I only add the numerator. ... fifths + ... fifths = ... fifths</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> $\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1\frac{2}{5}$  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	

Subtraction

Year 4

- Subtract 1s, 10s, 100s and 1,000s from a 4-digit number
- Subtract up to two 4-digit numbers
- Subtract decimal numbers in the context of money
- Subtract fractions and mixed numbers with the same denominator

Year 4	<ul style="list-style-type: none"> Subtract numbers with up to 4 digits using a formal written method. Solve simple measure and money problems involving fractions and decimals to 2 decimal places. Subtract fractions with the same denominator.
---------------	---

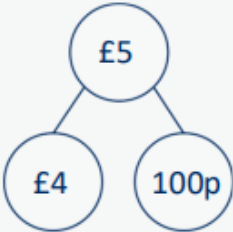
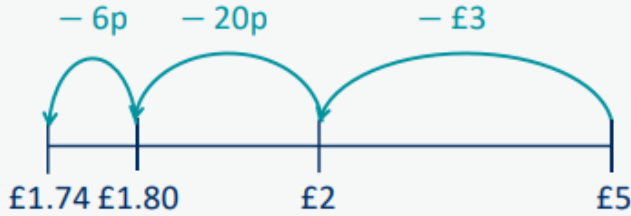
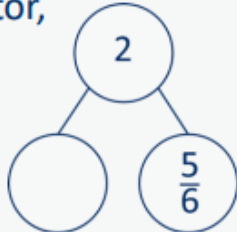
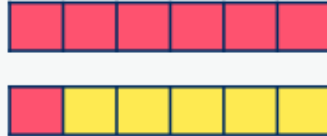


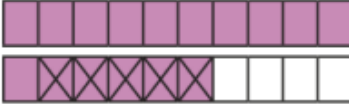

Progression of skills	Key representations
------------------------------	----------------------------

<p>Subtract 1s, 10s, 100s and 1,000s from a 4-digit number</p> <p>Emphasis on mental strategies including number bonds and related facts. Prompt children to notice which digit changes.</p>	<p>The ones/tens/hundreds/thousands column will decrease by ...</p> <table border="1" style="margin: 10px auto;"> <thead> <tr> <th style="background-color: #d9ead3;">Thousands</th> <th style="background-color: #d9ead3;">Hundreds</th> <th style="background-color: #d9ead3;">Tens</th> <th style="background-color: #d9ead3;">Ones</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1,000 1,000 1,000</td> <td style="text-align: center;">100 100 100 100</td> <td style="text-align: center;">10 10</td> <td style="text-align: center;">1 1 1 1 1</td> </tr> </tbody> </table> <p>3,425 - 2 = 3,425 - 200 = 3,425 - 20 = 3,425 - 2,000 =</p>	Thousands	Hundreds	Tens	Ones	1,000 1,000 1,000	100 100 100 100	10 10	1 1 1 1 1	<p>What patterns do you notice?</p> <p>4,356 - 3 = 4,356 - 30 = 4,356 - 300 = 4,356 - 3,000 =</p> <p>4,433 - <input type="text"/> = 4,430 4,433 - <input type="text"/> = 4,033 4,433 - <input type="text"/> = 4,403</p>
Thousands	Hundreds	Tens	Ones							
1,000 1,000 1,000	100 100 100 100	10 10	1 1 1 1 1							

<p>Subtract up to two 4-digit numbers</p> <p>Formal written method with up to 3 exchanges. Encourage children to estimate and use inverse operations to check answers to calculations.</p>	<p>I need to subtract... ones/tens/hundreds. I do/do not need to make an exchange.</p> <p>I can exchange 1... for 10...</p>
---	---

Th	H	T	O
1,000 1,000 1,000	100 100	10 10 10	1 1 1
1,000 1,000 1,000	100 100	10 10 10	1 1 1
		10 10 10	1 1 1
		10 10 10	1 1 1
		10 10 10	1 1 1
		10 10 10	1 1 1

Th	H	T	O
3	2	4	6
-	2	1	4
1	0	5	8

Progression of skills	Key representations	
<p>Subtract decimal numbers in the context of money</p> <p>Emphasis here is on partitioning and use of number lines rather than formal written calculations.</p>	<p>I can partition £... into £... and 100p</p> <p>£... - £... = £...</p> <p>100p - ...p = ...p</p> <p>£5 - £3.26</p> <p>£4 - £3 = £1</p> <p>100p - 26p = 74p</p> <p>£5 - £3.26 = £1.74</p> 	<p>£3.26 can be partitioned into £3 + 20p + 6p</p> 
<p>Subtract fractions and mixed numbers with the same denominator</p> <p>Include subtracting fractions from wholes.</p>	<p>When subtracting fractions with the same denominator, I only subtract the numerator.</p> <p>... tenths - ... tenths = ... tenths</p>      <p>$\frac{16}{10} - \frac{5}{10}$</p>  <p>$\frac{16}{10} - \frac{9}{10}$</p>	


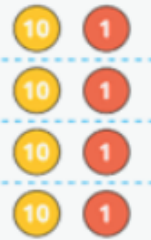
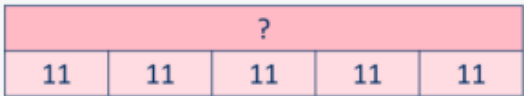
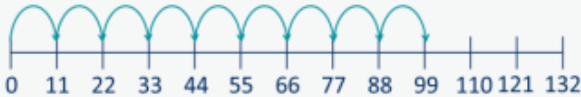
Multiplication




Year 4






- Times-table facts to 12×12
- Multiply by 1 and 0
- Multiply 3 numbers
- Factor pairs
- Multiply by 10 and 100
- Related facts
- Mental strategies
- Multiply a 2 or 3-digit number by a 1-digit number
- Scaling
- Correspondence problems


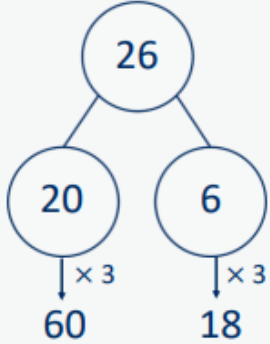
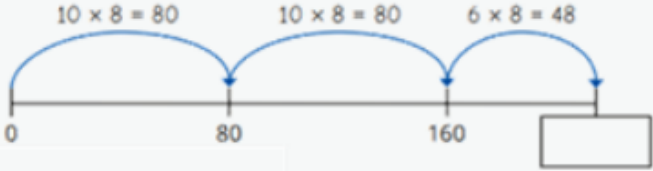
<p>Year 4</p>	<ul style="list-style-type: none"> Recall multiplication facts for multiplication tables up to 12×12 Use place value, known and derived facts to multiply mentally, including: multiplying by 0 and 1; multiplying together three numbers. Recognise and use factor pairs and commutativity in mental calculations. Multiply two-digit and three-digit numbers by a one-digit number using formal written layout. Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.
----------------------	--

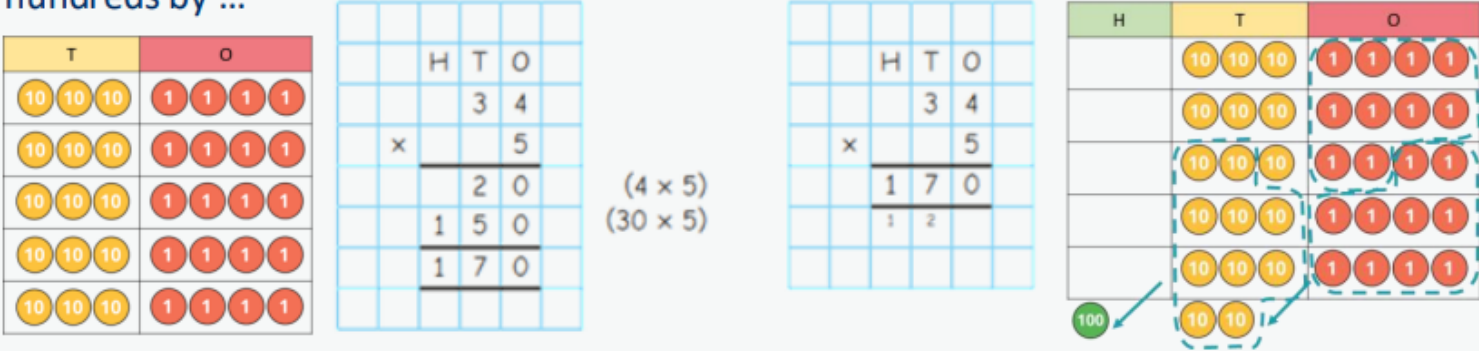
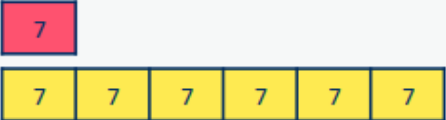
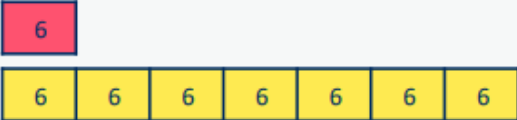
<p>Progression of skills</p>	<p>Key representations</p>
-------------------------------------	-----------------------------------

<p>Times-table facts to 12×12</p> <p>Encourage daily counting in multiples both forwards and back. Encourage children to notice links between related times-tables.</p>	<p>... groups of ... = ... times ... is equal to \times ... =</p>     <table border="1" data-bbox="1706 678 2072 1029"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td><td>17</td><td>18</td><td>19</td><td>20</td></tr> <tr><td>21</td><td>22</td><td>23</td><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr> <tr><td>31</td><td>32</td><td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>38</td><td>39</td><td>40</td></tr> <tr><td>41</td><td>42</td><td>43</td><td>44</td><td>45</td><td>46</td><td>47</td><td>48</td><td>49</td><td>50</td></tr> <tr><td>51</td><td>52</td><td>53</td><td>54</td><td>55</td><td>56</td><td>57</td><td>58</td><td>59</td><td>60</td></tr> <tr><td>61</td><td>62</td><td>63</td><td>64</td><td>65</td><td>66</td><td>67</td><td>68</td><td>69</td><td>70</td></tr> <tr><td>71</td><td>72</td><td>73</td><td>74</td><td>75</td><td>76</td><td>77</td><td>78</td><td>79</td><td>80</td></tr> <tr><td>81</td><td>82</td><td>83</td><td>84</td><td>85</td><td>86</td><td>87</td><td>88</td><td>89</td><td>90</td></tr> <tr><td>91</td><td>92</td><td>93</td><td>94</td><td>95</td><td>96</td><td>97</td><td>98</td><td>99</td><td>100</td></tr> </table>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10																																																																																												
11	12	13	14	15	16	17	18	19	20																																																																																												
21	22	23	24	25	26	27	28	29	30																																																																																												
31	32	33	34	35	36	37	38	39	40																																																																																												
41	42	43	44	45	46	47	48	49	50																																																																																												
51	52	53	54	55	56	57	58	59	60																																																																																												
61	62	63	64	65	66	67	68	69	70																																																																																												
71	72	73	74	75	76	77	78	79	80																																																																																												
81	82	83	84	85	86	87	88	89	90																																																																																												
91	92	93	94	95	96	97	98	99	100																																																																																												

<p>Multiply by 1 and 0</p>	<p>Any number multiplied by 1 is equal to ... Any number multiplied by 0 is equal to ...</p>   	<p>... \times ... = ...</p> <table> <tr> <td>$1 \times 1 = 1$</td> <td>$1 \times 0 = 0$</td> </tr> <tr> <td>$2 \times 1 = 2$</td> <td>$2 \times 0 = 0$</td> </tr> <tr> <td>$3 \times 1 = 3$</td> <td>$3 \times 0 = 0$</td> </tr> <tr> <td>$4 \times 1 = 4$</td> <td>$4 \times 0 = 0$</td> </tr> </table>	$1 \times 1 = 1$	$1 \times 0 = 0$	$2 \times 1 = 2$	$2 \times 0 = 0$	$3 \times 1 = 3$	$3 \times 0 = 0$	$4 \times 1 = 4$	$4 \times 0 = 0$
$1 \times 1 = 1$	$1 \times 0 = 0$									
$2 \times 1 = 2$	$2 \times 0 = 0$									
$3 \times 1 = 3$	$3 \times 0 = 0$									
$4 \times 1 = 4$	$4 \times 0 = 0$									

Progression of skills	Key representations																						
<p>Multiply 3 numbers</p> <p>Children use their understanding of commutativity to multiply more efficiently.</p>	<p>To work out ... \times ... \times ..., I can first calculate ... \times ... and then multiply the answer by ...</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> $4 \times 2 \times 3 = 8 \times 3 = 24$ </div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> $2 \times 3 \times 4 = 6 \times 4 = 24$ </div> </div> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> $3 \times 4 \times 2 = 12 \times 2 = 24$ </div> </div>																						
<p>Factor pairs</p> <p>Children explore equivalent calculations using different factors pairs.</p>	<p>$12 = \dots \times \dots$, so ... \times 12 = ... \times ... \times ...</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <div style="margin-left: 10px;"> $8 \times 6 = 8 \times 3 \times 2$ $8 \times 6 = 24 \times 2$ </div> </div> <div style="text-align: center;">  <div style="margin-left: 10px;"> $6 \times 8 = 6 \times 4 \times 2$ $6 \times 8 = 24 \times 2$ </div> </div> </div>																						
<p>Multiply by 10 and 100</p> <p>Some children may over-generalise that multiplying by 10 or 100 always results in adding zeros. This will cause issues later when multiplying decimals.</p>	<p>When I multiply by 10, the digits move ... place value column to the left. ... is 10 times the size of ...</p> <div style="display: flex; align-items: center;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 100px;"> <tr><th style="background-color: #d9ead3;">H</th><th style="background-color: #fff2cc;">T</th><th style="background-color: #f4cccc;">O</th></tr> <tr><td></td><td>●●</td><td>●●</td></tr> <tr><td></td><td>●●</td><td>●●</td></tr> </table> <div style="margin-left: 10px;"> $35 \times 10 = 350$ </div> </div>	H	T	O		●●	●●		●●	●●	<p>When I multiply by 100, the digits move ... place value columns to the left. ... is 100 times the size of ...</p> <div style="display: flex; align-items: center;"> <table border="1" style="border-collapse: collapse; text-align: center; width: 150px;"> <tr><th style="background-color: #d9ead3;">Th</th><th style="background-color: #d9ead3;">H</th><th style="background-color: #fff2cc;">T</th><th style="background-color: #f4cccc;">O</th></tr> <tr><td></td><td></td><td>●</td><td>●●</td></tr> <tr><td></td><td></td><td></td><td>●●</td></tr> </table> <div style="margin-left: 10px;"> $14 \times 100 = 1,400$ </div> </div>	Th	H	T	O			●	●●				●●
H	T	O																					
	●●	●●																					
	●●	●●																					
Th	H	T	O																				
		●	●●																				
			●●																				

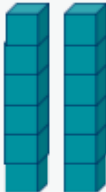

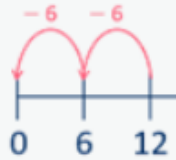


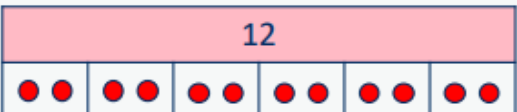




Progression of skills	Key representations								
<p>Related facts</p> <p>Use knowledge of multiplying by 10 and 100 to scale times-table facts.</p>	<p>... × ... ones is equal to ... ones so ... × ... tens is equal to ... tens and ... × ... hundreds is equal to ... hundreds.</p>  <p> $3 \times 7 = 21$ $7 \times 3 = 21$ $3 \times 70 = 210$ $7 \times 30 = 210$ $3 \times 700 = 2,100$ $7 \times 300 = 2,100$ </p>								
<p>Mental strategies</p> <p>Partition 2 or 3-digit numbers to multiply using informal methods.</p>	<p>... tens multiplied by ... is equal to ... tens. ...ones multiplied by ... is equal to ... ones.</p> <table border="1" data-bbox="629 794 987 1078"> <thead> <tr> <th>Tens</th> <th>Ones</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> <tr> <td></td> <td></td> </tr> </tbody> </table>  <p> $3 \times 26 = 60 + 18 = 78$ </p>  <p> $26 \times 8 = 80 + 80 + 48 = 208$ </p>	Tens	Ones						
Tens	Ones								




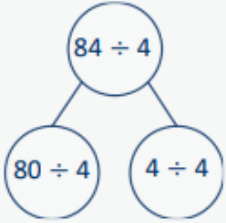
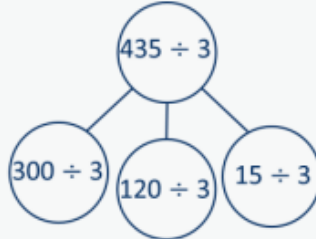
Progression of skills	Key representations																								
<p>Multiply a 2 or 3-digit number by a 1-digit number</p> <p>The short multiplication method is introduced for the first time, initially in an expanded form.</p>	<p>To multiply a 2-digit number by ... , I multiply the ones by ... and the tens by ... To multiply a 3-digit number by ... , I multiply the ones by ... , the tens by ... and the hundreds by ...</p> 																								
<p>Scaling</p> <p>Children focus on multiplication as scaling (... times the size).</p>	<p>... is ... times the size of ...</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="633 770 1077 890">  <p>A computer mouse costs £7 A keyboard costs 6 times as much.</p> </div> <div data-bbox="1420 770 1935 890">  <p>A red ribbon is 6 cm. A yellow ribbon is 7 times as long.</p> </div> </div>																								
<p>Correspondence problems</p> <p>Encourage children to use tables to show all the different possible combinations.</p>	<p>For every ... , there are ... possibilities. There are ... × ... possibilities altogether.</p> <p>A pizza company offers a choice of 5 toppings and 3 bases.</p> <p>$5 \times 3 = 15$</p> <table border="1" data-bbox="1301 1075 2107 1347"> <thead> <tr> <th></th> <th>Deep pan</th> <th>Italian</th> <th>Thin</th> </tr> </thead> <tbody> <tr> <th>Cheese</th> <td>C DP</td> <td>C I</td> <td>C Th</td> </tr> <tr> <th>Mushroom</th> <td>M DP</td> <td>M I</td> <td>M Th</td> </tr> <tr> <th>Vegetable</th> <td>V DP</td> <td>V I</td> <td>V Th</td> </tr> <tr> <th>Chicken</th> <td>C DP</td> <td>C I</td> <td>C Th</td> </tr> <tr> <th>Tuna</th> <td>T DP</td> <td>T I</td> <td>T Th</td> </tr> </tbody> </table>		Deep pan	Italian	Thin	Cheese	C DP	C I	C Th	Mushroom	M DP	M I	M Th	Vegetable	V DP	V I	V Th	Chicken	C DP	C I	C Th	Tuna	T DP	T I	T Th
	Deep pan	Italian	Thin																						
Cheese	C DP	C I	C Th																						
Mushroom	M DP	M I	M Th																						
Vegetable	V DP	V I	V Th																						
Chicken	C DP	C I	C Th																						
Tuna	T DP	T I	T Th																						

Division

Year 4

- Division facts to 12×12
- Divide a number by 1 and itself
- Related facts
- Divide a 2 or 3-digit number by a 1-digit number
- Divide by 10 and 100

<p>Year 4</p>	<ul style="list-style-type: none"> Recall division facts for multiplication tables up to 12×12 Use place value, known and derived facts to divide mentally, including: dividing by 1 Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths. 	
<p>Progression of skills</p>	<p>Key representations</p>	
<p>Division facts to 12×12</p> <p>Encourage children to compare the grouping and sharing structures of division and to make links with times-table facts.</p>	<p>There are ... groups of ... in ... $\dots \div \dots =$</p>   <p>$2 \times 6 = 12$ $12 \div 6 = 2$</p> 	<p>... has been shared equally into ... equal groups. $\dots \div \dots =$</p>    <p>$2 \times 6 = 12$ $12 \div 6 = 2$</p>
<p>Divide a number by 1 and itself</p> <p>Children may try to divide a number by zero and it should be highlighted that this is not possible.</p>	<p>When I divide a number by 1, the number remains the same.</p> <p>5 shared between 1 is 5 </p> <p>There are 5 groups of 1 in 5</p> 	<p>When I divide a number by itself, the answer is 1</p> <p>5 shared between 5 is 1</p>  <p>There is 1 group of 5 in 5</p> 

Progression of skills	Key representations																										
<p>Related facts</p> <p>Link to known times-table facts.</p>	<p>... ÷ ... is equal to ... so ... tens ÷ ... is equal to ... tens and ... hundreds ÷ ... is equal to ... hundreds.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;"> $21 \div 7 = 3$ $210 \div 7 = 30$ $2,100 \div 7 = 300$ </div> <div style="text-align: center;"> $21 \div 3 = 7$ $210 \div 3 = 70$ $2,100 \div 3 = 700$ </div> </div>																										
<p>Divide a 2 or 3-digit number by a 1-digit number</p> <p>Progress from divisions with no exchange, to divisions with exchange and then divisions with remainders.</p>	<p>I can partition ... into ... tens and ... ones.</p> <div style="display: flex; align-items: center; margin-bottom: 20px;"> <div style="text-align: center;">  </div> <div style="margin-left: 20px;"> $80 \div 4 = 20$ $4 \div 4 = 1$ $84 \div 4 = 21$ </div> </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #fff9c4;">Tens</th> <th style="background-color: #f8bbd0;">Ones</th> </tr> </thead> <tbody> <tr><td>10 10</td><td>1</td></tr> <tr><td>10 10</td><td>1</td></tr> <tr><td>10 10</td><td>1</td></tr> <tr><td>10 10</td><td>1</td></tr> </tbody> </table>	Tens	Ones	10 10	1	10 10	1	10 10	1	10 10	1	<p>I cannot share the hundreds/tens equally, so I need to exchange 1 ... for 10 ...</p> <div style="display: flex; align-items: center; margin-bottom: 20px;"> <div style="text-align: center;">  </div> <div style="margin-left: 20px;"> $300 \div 3 = 100$ $120 \div 3 = 40$ $15 \div 3 = 5$ $435 \div 3 = 145$ </div> </div> <table border="1" style="width: 100%; text-align: center; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #c8e6c9;">Hundreds</th> <th style="background-color: #fff9c4;">Tens</th> <th style="background-color: #f8bbd0;">Ones</th> </tr> </thead> <tbody> <tr><td>100</td><td>10 10 10 10</td><td>1 1 1 1 1 1 1 1</td></tr> <tr><td>100</td><td>10 10 10 10</td><td>1 1 1 1 1 1 1 1</td></tr> <tr><td>100</td><td>10 10 10 10</td><td>1 1 1 1 1 1 1 1</td></tr> <tr><td>100</td><td>10</td><td></td></tr> </tbody> </table>	Hundreds	Tens	Ones	100	10 10 10 10	1 1 1 1 1 1 1 1	100	10 10 10 10	1 1 1 1 1 1 1 1	100	10 10 10 10	1 1 1 1 1 1 1 1	100	10	
Tens	Ones																										
10 10	1																										
10 10	1																										
10 10	1																										
10 10	1																										
Hundreds	Tens	Ones																									
100	10 10 10 10	1 1 1 1 1 1 1 1																									
100	10 10 10 10	1 1 1 1 1 1 1 1																									
100	10 10 10 10	1 1 1 1 1 1 1 1																									
100	10																										

Progression of skills	Key representations			
<p>Divide by 10 and 100</p> <p>Encourage children to notice that dividing by 100 is the same as dividing by 10 twice.</p>	<p>When I divide by 10, the digits move 1 place value column to the right. ... is one-tenth the size of ...</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="638 368 929 496"> </div> <div data-bbox="965 368 1355 496"> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="638 520 929 647"> </div> <div data-bbox="965 520 1355 647"> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="674 679 893 719">$2 \div 10 = 0.2$</div> <div data-bbox="1041 679 1283 719">$12 \div 10 = 1.2$</div> </div>		<p>When I divide by 100, the digits move 2 place value columns to the right. ... is one-hundredth the size of ...</p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="1397 368 1688 496"> </div> <div data-bbox="1724 368 2114 496"> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="1397 520 1688 647"> </div> <div data-bbox="1724 520 2114 647"> </div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div data-bbox="1422 679 1682 719">$2 \div 100 = 0.02$</div> <div data-bbox="1785 679 2072 719">$12 \div 100 = 0.12$</div> </div>	