



St Mary's CE Primary School

'Knowing each child, growing each child, in God's love'

Written Calculation Policy

1 John 4:16

*And so we know and rely on the love God has for us.
God is love. Whoever lives in love lives in God, and God in them.*

Date ratified: February 2021

Date for Review: September 2022

Written Calculation Progression

At Tonwell St Mary's, we have chosen to adopt the Herts for Learning (HfL) ESSENTIALmaths pathway as outlined in our maths intent document. This policy aims to illustrate our school's approach to teaching calculations and is linked to the required written formal calculation methods as outlined in the National Curriculum (2013) [Mathematics Appendix 1: Examples of formal written methods for addition, subtraction, multiplication and division.](#)

The HfL ESSENTIALmaths Written Calculation Progression links the key concrete experiences with pictorial and abstract representations (written symbolic and spoken). This supports pupils to move with confidence and deep conceptual understanding through each strand of calculation.

Concrete, Pictorial and Abstract

Concrete manipulatives

Concrete manipulatives are objects that can be touched and moved by pupils to introduce, explore or reinforce a mathematical concept. They provide a vehicle to help pupils make sense of complex, symbolic and abstract ideas through exploration and manipulation. Furthermore, they support the development of internal models and help build stronger memory pathways.

Pictorial (including jottings)

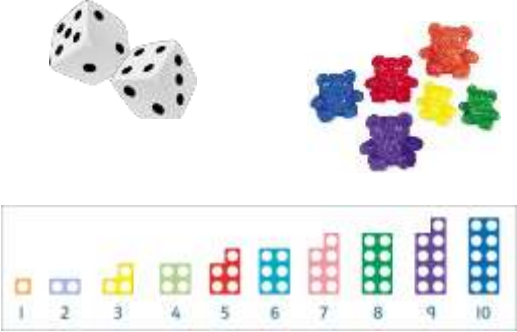
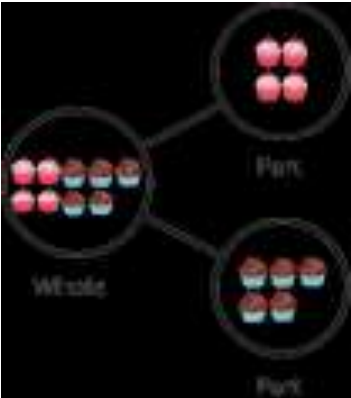
The act of translating the concrete experience into a pictorial representation helps focus attention on what has happened and why. This supports deeper understanding and a stronger imprint on memory. Pictorial representations are more malleable than concrete resources and, once understanding is secured, allow exploration of complex problems that may be challenging to reproduce with manipulatives.

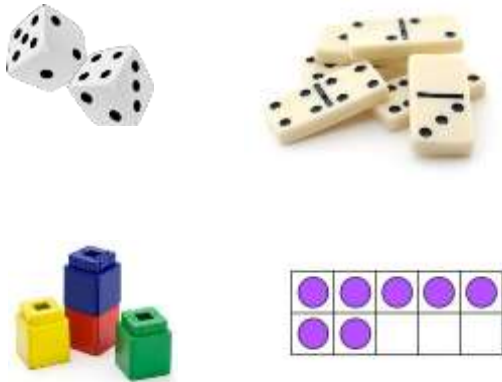
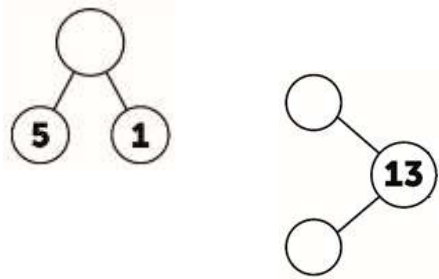
Abstract - Written


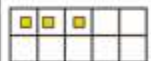

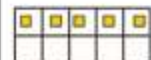



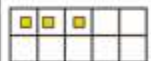

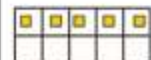







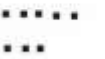





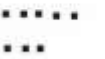

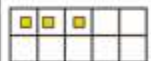

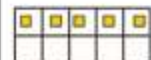







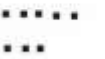
The aim, within this policy, is for compacted forms of notation. These have developed through the history of mathematics. Explicit individual steps in procedure are hidden or they have been shortcut. The informal and expanded methods expose all the intermediate steps, replicating thought processes more closely and support understanding prior to compaction.

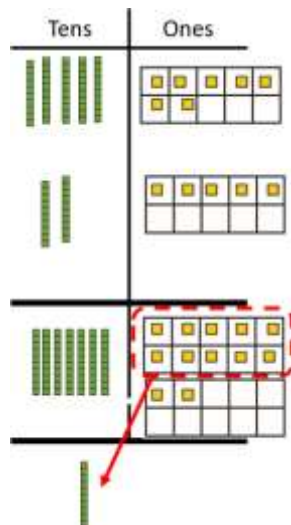
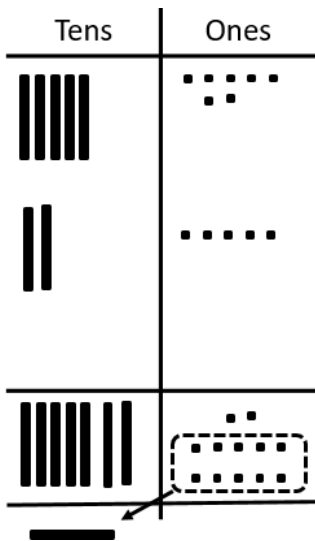
Abstract - Spoken

Learning to use the correct mathematical vocabulary is vital for the development of mathematical proficiency. The ability to articulate accurately allows pupils to communicate and build meaning. Ideas become more permanent. This can be scaffolded effectively using speaking frame.

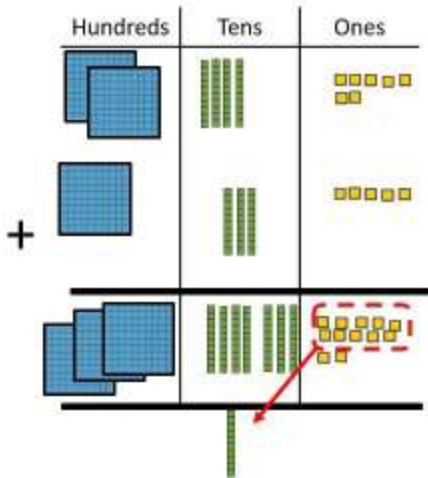
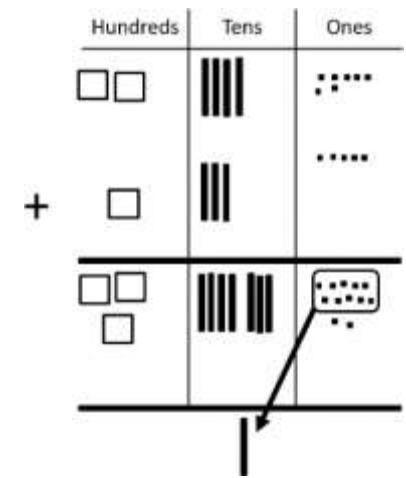
<h1>EYFS</h1>	<p><u>Early Learning Goals (ELG):</u></p> <p><u>Number</u></p> <p>Children at the expected level of development will:</p> <p>Have a deep understanding of number to 10, including the composition of each number;</p> <p>Subitise (recognise quantities without counting) up to 5;</p> <p>Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.</p>	<p><u>Numerical Patterns</u></p> <p>Children at the expected level of development will:</p> <p>Verbally count beyond 20, recognising the pattern of the counting system;</p> <p>Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity;</p> <p>Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.</p>
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> $4 + 5 = 9$ $9 - 5 = 4$

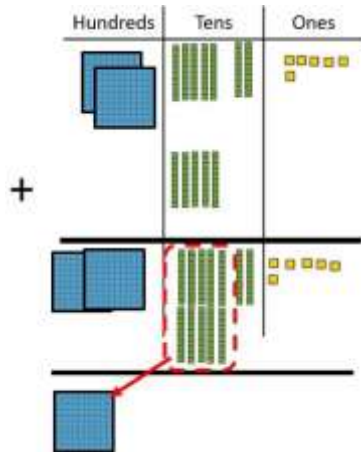
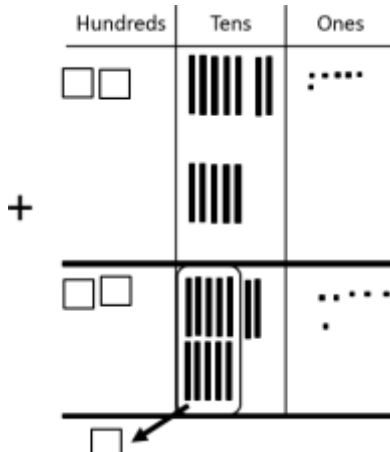
Year 1	NC Statement: Pupils should be taught to: <ul style="list-style-type: none">- read, write and interpret mathematical statements involving addition (+), subtraction- (−) and equals (=) signs- represent and use number bonds and related subtraction facts within 20- add and subtract one-digit and two-digit numbers to 20, including zero- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $? - 7 = 9$.- solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher		
Concrete	Pictorial	Abstract - Written symbolic	
		$5 + 1 = 6$ $6 = 1 + 5$ $? - 6 = 7$	

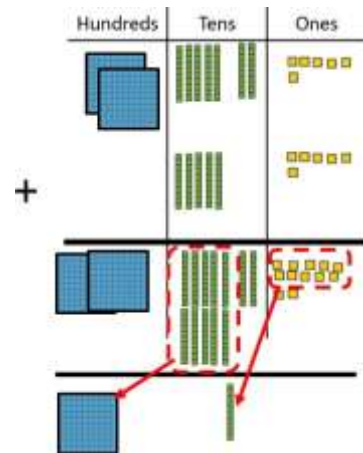
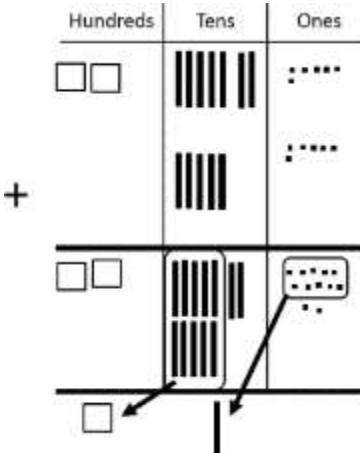
Year 2	NC Statement: Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: - a two-digit number and ones - a two-digit number and tens - two, two-digit numbers																									
2LS15 Step 3: Expanded written method with no regrouping (2-digit numbers)																										
<div>Concrete</div> <div><table><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></div>	Tens	Ones							<div>Pictorial</div> <div><table><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></div>	Tens	Ones							<div>Abstract - Written symbolic</div> <div><table><tbody><tr><td>40</td><td>3</td></tr><tr><td>+</td><td>30 5</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td>70</td><td>8</td></tr></tbody></table></div> <div>43 + 35 = 78</div>	40	3	+	30 5	<hr/>		70	8
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<div>Abstract - Speaking frame</div> <div>The sum of ... ones and ... ones is ... ones. The sum of ... tens and ... tens is ... tens. So, ... + ... is equal to ... tens and ... ones, which is ...</div>		<div>Notes:</div> <div>Using embedded tens frame supports pupils to organise ones in preparation for regrouping.</div>																								

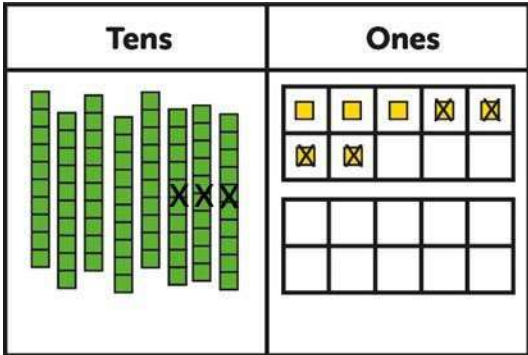
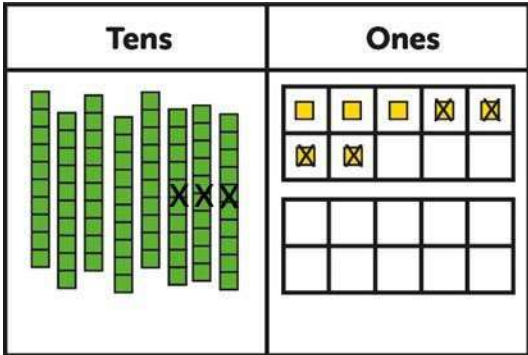
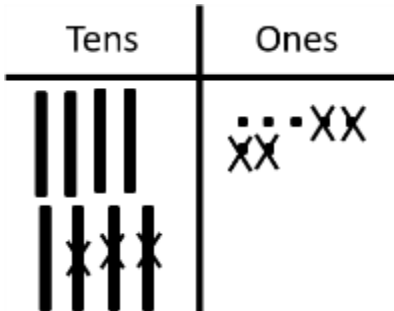
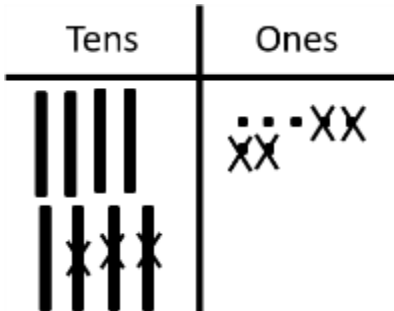
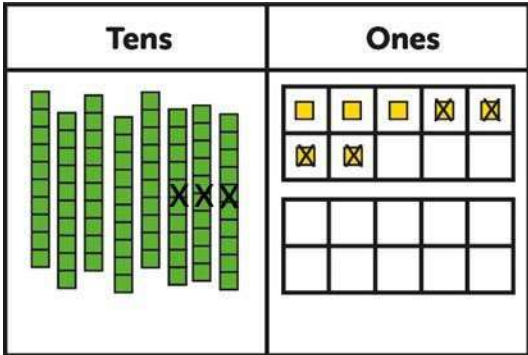
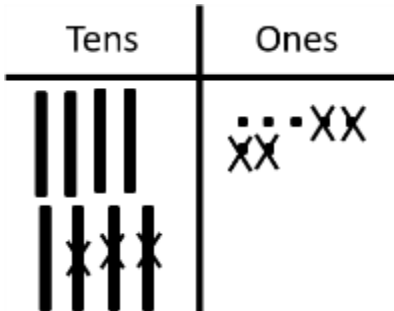
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2LS15 Step 4: Expanded written method with regrouping of ones (2-digit numbers)		
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> <div>$\begin{array}{r} 50 + 7 \\ + 20 + 5 \\ \hline 80 + 12 \\ \hline 10 \quad 2 \\ \hline \end{array}$</div> <div>57 + 25 = 92</div>
<p>Abstract - Speaking frame</p> <div><p>The sum of ... ones and ... ones is ... ones.</p><p>This is regrouped into ... ten and ... ones.</p><p>The sum of ... tens and ... tens is ...tens.</p><p>So, ... + ... is equal to ... tens and ... ones, which is ...</p></div>		<p>Notes:</p> <p>Pupils should be encouraged to estimate first and check their answer using a mental method.</p> <p>Using embedded tens frame supports pupils to rapidly see the regroup and to keep their jottings organised.</p>

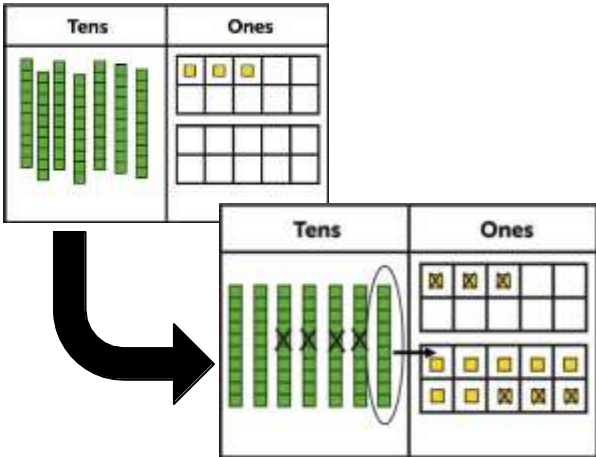
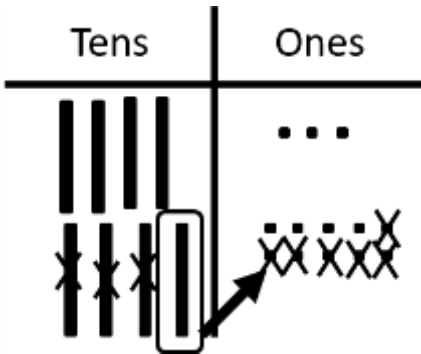
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Hundreds	Tens	Ones																																				
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Year 3	NC Statement: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	
3LS8 Step 3: Formal written addition with regrouping of ones (up to three-digit numbers)		
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> <div><div><div>247</div><div>+ 135</div><div>382</div><div>1</div></div><div>247 + 135 = 382</div></div>
<p>Abstract - Speaking frame</p> <div><div>The sum of ... ones and ... ones is ... ones.</div><div>The sum of ... tens and ... tens is ...tens.</div><div>The sum of ... hundreds and ... hundreds is ... hundreds.</div><div>So, ... + ... is equal to ... hundreds, ... tens and ... ones,</div><div>which is</div></div>		<p>Notes:</p> <p>The focus is on regrouping of ones.</p> <p>Pupils should be encouraged to estimate first and check their answer using a mental method.</p>

Year 3	NC Statement: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	
3LS8 Step 4: Formal written addition with regrouping tens only (up to three-digit numbers)		
<div>Concrete</div> <div></div>	<div>Pictorial</div> <div></div>	<div>Abstract - Written symbolic</div> <div>$\begin{array}{r} 276 \\ + 50 \\ \hline 326 \\ \hline 1 \end{array}$</div> <div>276 + 50 = 326</div>
<div>Abstract - Speaking frame</div> <div><div>The sum of ... ones and ... ones is ... ones. This is regrouped into ... tens and ... ones. The sum of ... tens and ... tens is ...tens. The sum of ... hundreds and ... hundreds is ... hundreds. So, ... + ... is equal to ... hundreds, ... tens and ... ones, which is</div></div>		<div>Notes:</div> <div>The focus is on regrouping of tens.</div> <div>Pupils should be encouraged to estimate first and check their answer using a mental method.</div>

Year 3	NC Statement: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	
3LS8 Step 4: Formal written addition with regrouping tens and ones (up to three-digit numbers)		
<div>Concrete</div> 	<div>Pictorial</div> 	<div>Abstract - Written symbolic</div> <div><div><div>276</div><div>+ 56</div><div>332</div></div><div>276 + 56 = 332</div></div>
<div>Abstract - Speaking frame</div> <div><div>The sum of ... ones and ... ones is ... ones. This is regrouped into ... tens and ... ones. The sum of ... tens and ... tens is ...tens. This is regrouped into ... hundreds and ... tens. The sum of ... hundreds and ... hundreds is ... hundreds. So, ... + ... is equal to ... hundreds, ... tens and ... ones, which is ...</div></div>		<div>Notes:</div> <div><div>Pupils should be encouraged to estimate first and check their answer using a mental method.</div><div>Once pupils have fully understood and rehearsed regrouping within formal column addition of 3-digit numbers, this learning continues to be rehearsed and applied throughout Years 4, 5 and 6, including to 4-digit numbers, larger numbers, decimal numbers, money and measures.</div></div>

Year 2	NC Statement: add and subtract numbers using concrete objects, pictorial representations, and mentally, including: <ul style="list-style-type: none">- a two-digit number and ones- a two-digit number and tens- two, two-digit numbers.									
2LS17 Step 4: Expanded written subtraction, a 2-digit number from a 2-digit number with no regrouping										
<div>Concrete</div> <div><table><thead><tr><th>Tens</th><th>Ones</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table></div>	Tens	Ones			<div>Pictorial</div> <div><table><thead><tr><th>Tens</th><th>Ones</th></tr></thead><tbody><tr><td></td><td></td></tr></tbody></table></div>	Tens	Ones			<div>Abstract - Written symbolic</div> <div><div>$\begin{array}{r} 80 + 7 \\ - 30 + 4 \\ \hline 50 + 3 \end{array}$</div><div>87 – 34 = 53</div></div>
Tens	Ones									
										
Tens	Ones									
										
<div>Abstract - Speaking frame</div> <div><div>... ones take away ... ones leaves ... ones. ... tens take away ... tens leaves ... tens. So, ... - ... is equal to ... tens and ... ones, which is ...</div></div>		<div>Notes:</div> <div>Pupils should be encouraged to estimate first and check their answer using a mental method.</div>								

Year 2	<p>NC Statement:</p> <p>add and subtract numbers using concrete objects, pictorial representations, and mentally, including:</p> <ul style="list-style-type: none">- a two-digit number and ones- a two-digit number and tens- two, two-digit numbers.	
2LS17 Step 5: Expanded written subtraction, a 2-digit number from a 2-digit number with regrouping		
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> <div><div><div>60</div><div>70</div><div>-</div><div>40</div><div>20</div></div><div><div>13</div><div>+</div><div>3</div><div>+</div><div>6</div><div>7</div></div></div> <div>73 - 46 = 27</div>
<p>Abstract - Speaking frame</p> <div><p>I can see that there aren't enough ones for me to take away ... ones without regrouping.</p><p>Regroup one ten into ten ones.</p><p>There are now ... tens and ... ones.</p><p>... ones take away ... ones leaves ... ones.</p><p>... tens take away ... tens leaves ... tens.</p><p>So, ... - ... is equal to... tens and ... ones, which is</p></div>		<p>Notes:</p> <p>Using embedded tens frame supports pupils to regroup accurately and to keep their jottings organised.</p> <p>Speaking frame note: "I can see that there aren't enough ones for me to take away 6 ones without regrouping. Regroup one ten into ten ones. There are now 6 tens and 13 ones."</p>

Year 3	NC Statement: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction																																
3LS9 Step 1: Formal written subtraction with no regrouping (up to 3-digit numbers)																																	
<div>Concrete</div> <div><table><tr><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td><td></td></tr></table></div>	Hundreds	Tens	Ones				<div>Pictorial</div> <div><table><tr><td>Hundreds</td><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td><td></td></tr></table></div>	Hundreds	Tens	Ones				<div>Abstract - Written symbolic</div> <div><table><tr><td>3</td><td>4</td><td>5</td></tr><tr><td>-</td><td>1</td><td>2</td><td>4</td></tr><tr><td colspan="4"><hr/></td></tr><tr><td>2</td><td>2</td><td>1</td><td></td></tr><tr><td colspan="4"><hr/></td></tr></table><div>345 – 124 = 221</div></div>	3	4	5	-	1	2	4	<hr/>				2	2	1		<hr/>			
Hundreds	Tens	Ones																															
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3	4	5																															
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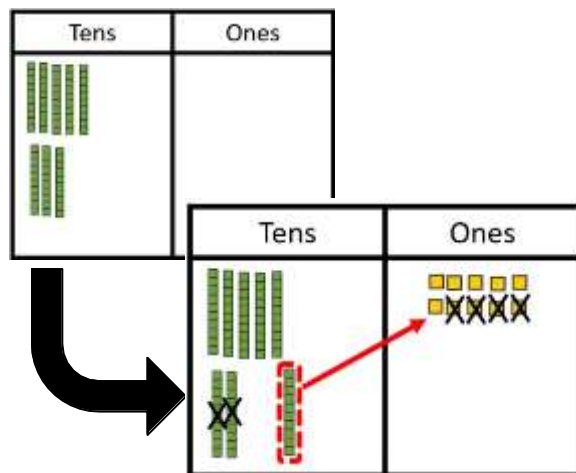
Year 3

NC Statement:

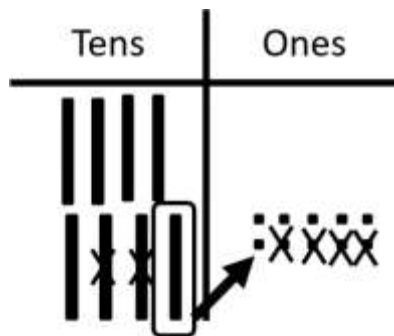
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

3LS9 Step 2: Formal written subtraction – regrouping tens into ones only (up to 3-digit numbers)

Concrete



Pictorial



Abstract - Written symbolic

$$\begin{array}{r} 7\cancel{8}^{10} \\ - 24 \\ \hline 56 \end{array}$$

$$80 - 24 = 56$$

Abstract - Speaking frame

I can see that there aren't enough ones for me to take away ... ones without regrouping.
 Regroup one ten into ten ones.
 There are now ... tens and ... ones.
 ... ones take away ... ones leaves ... ones.
 ... tens take away ... tens leaves ... tens.
 So, ... - ... is equal to ... tens and ... ones, which is ...

Notes:

It is important that pupils understand that 80 has been regrouped into 70 and 10. If pupils struggle with the compact notation refer to 2LS17 Step 5 for the expanded method.

Speaking frame note:

"I can see that there aren't enough ones for me to take away 4 ones without regrouping. Regroup one ten into ten ones. There are now ten ones and zero ones. 10 ones take away 4 ones leaves six ones. 7 tens take away 2 tens leaves 5 tens. So, 80 - 24 is equal to 5 tens and 6 ones, which is 56."

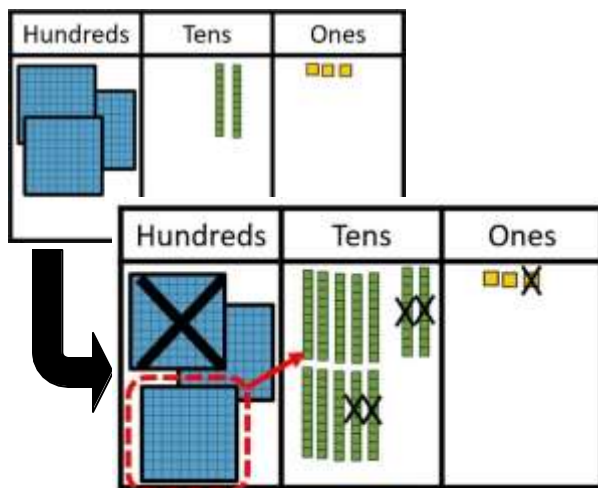
Year 3

NC Statement:

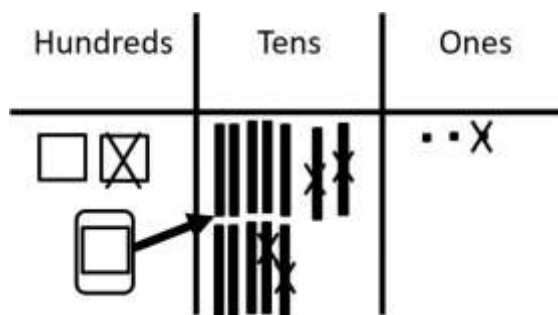
Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

3LS9 Step 3: Formal written subtraction – regrouping hundreds into tens only (up to 3-digit numbers)

Concrete



Pictorial



Abstract - Written symbolic

$$\begin{array}{r} \cancel{2}^2 \cancel{3}^1 2 \ 3 \\ - 1 \ 4 \ 1 \\ \hline 1 \ 8 \ 2 \end{array}$$

$$323 - 141 = 182$$

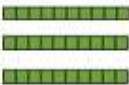

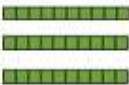

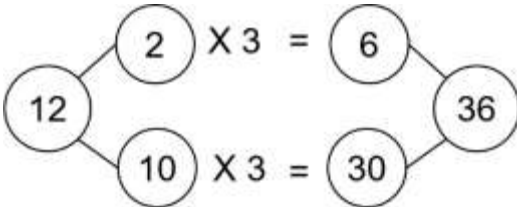
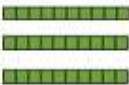

Abstract - Speaking frame

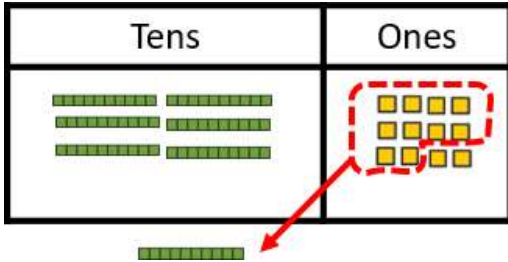
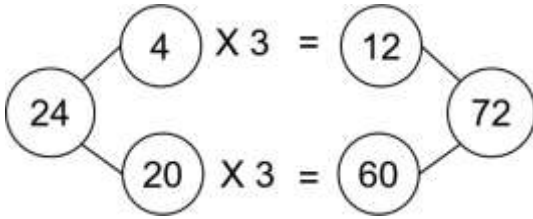
... ones take away ... ones leaves ... ones.
 I can see that there aren't enough tens for me to take away ... tens without regrouping.
 Regroup one hundred into ten tens.
 There are now ... hundreds and ... tens.
 ... tens take away ... tens leaves ... tens.
 ... hundreds take away ... hundreds leaves ... hundreds
 So, ... – ... is equal to ... hundreds, ... tens and ... ones, which is

Notes:

It is important that pupils start to identify where regrouping is necessary.
 Ensure that pupils are confident that the minuend may have been regrouped but it is still of equal value prior to subtraction.

Year 3	NC Statement: Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	
3LS9 Step 4: Formal written subtraction - regrouping hundreds and tens (up to 3-digit numbers)		
<div>Concrete</div>	<div>Pictorial</div>	<div>Abstract - Written symbolic</div> <div><div><div><div><div>3</div><div>4⁹</div><div>0¹</div><div>4</div></div><div><div>-</div><div>2</div><div>2</div><div>6</div></div><div><div>1</div><div>7</div><div>8</div></div></div></div><div>404 – 226 = 178</div></div>
<div>Abstract - Speaking frame</div> <div><div>I will need to regroup...</div><div><div>•</div><div>one hundred into ten tens. I now have ... hundreds and ... tens.</div></div><div><div>•</div><div>one ten into ten ones. I now have ... tens and ... ones.</div></div></div>		<div>Notes:</div> <div><div>Speaking frame hint: This is not a complete speaking frame. It is structured to support pupils with the language of regroup only.</div><div>Once pupils have fully understood and rehearsed regrouping within formal subtraction, this learning continues to be rehearsed and applied throughout Years 4, 5 and 6, including to multi-digit, decimal numbers, money and measures.</div></div>

Year 3	NC Statement: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods						
3LS26 Step 3: Introducing short multiplication with no regrouping							
Concrete	Pictorial - Jottings	Abstract - Written symbolic					
<table border="1"><tr><td>Tens</td><td>Ones</td></tr><tr><td></td><td></td></tr></table>	Tens	Ones				<div><div><div>12</div><div>x</div><div>3</div><div>36</div></div><div><div>36</div><div>—</div><div>36</div></div></div> <div>12 x 3 = 36</div>	
Tens	Ones						
							
Abstract - Speaking frame		Notes:					
<div>... groups of ... ones is ... ones. ... groups of ... tens is ... tens. ... tens added to ... ones is ... The product of ... and ... is ...</div>		<p>Pupils have already met the distributive law (3LS18) and rehearsed multiplying by ten (3LS25). The focus of this step is support pupils in making the connection between informal distributive approach and the formal layout.</p> <p>Speaking frame note: “3 groups of 2 ones is 6 ones. 3 groups of 1 ten is 3 tens. 3 tens added 6 ones is 36. The product of 12 and 3 is 36.”</p>					

Year 3	NC Statement: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods	
3LS26 Step 4: Short multiplication with regrouping of ones into tens only		
<div>Concrete</div> <div></div>	<div>Pictorial - Jottings</div> <div></div>	<div>Abstract - Written symbolic</div> <div>$\begin{array}{r} 24 \\ \times 3 \\ \hline 72 \\ \hline \end{array}$<div>24 x 3 = 72</div></div>
<div>Abstract - Speaking frame</div> <div><div>... groups of ... ones is ... ones. <i>I can regroup the ... ones into ... ten(s) and ... one(s).</i> ... groups of ... tens is ... tens. ... ten(s) added to ... is ... The product of ... and ... is ...</div></div>		<div>Notes:</div> <div><p>Pupils have already met the distributive law (3LS18) and rehearsed multiplying by ten (3LS25).</p><p>The focus of this step is to support pupils in making the connection between informal distributive approach and the formal layout.</p><p>Speaking frame note: “3 groups of 4 ones is 12 ones. I can regroup the 12 ones into 1 ten and 2 ones. 3 groups of 2 tens is 6 tens. 1 ten added to 6 tens is 7 tens. The product of 24 x 3 is 72.”</p><p>Pupils should be encouraged to consider whether italicised language in the speaking frame is required in the calculation.</p></div>

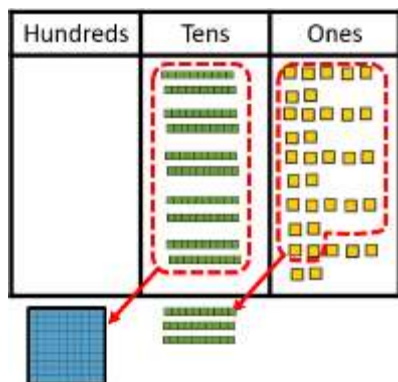
Year 3

NC Statement:

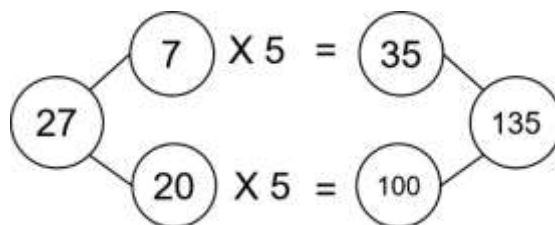
Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

3LS26 Step 5: Short multiplication with regrouping of tens and ones

Concrete



Pictorial - Jottings



Abstract - Written symbolic

$$\begin{array}{r} 27 \\ \times 5 \\ \hline 135 \end{array}$$

$$27 \times 5 = 135$$

Abstract - Speaking frame

... groups of ... ones is ... ones.
 I can regroup the ... ones into ... **ten(s)** and ... one(s).
 ... groups of ... tens is ... tens.
 ... ten(s) added to ... ten(s) is ...
 I can regroup the ... tens into ... **hundred(s)** and ... ten(s)
 The product of ... and ... is ...

Notes:

At this stage, the pictorial representation is being used as a checking point to ensure pupils answer accurately. This allows focused attention on understanding the abstract recording.

Speaking frame note:

"5 groups of 7 ones is 35 ones. I can regroup the 35 ones into 3 tens and 5 ones. 5 groups of 2 tens is 10 tens. 3 tens added to 10 tens is 13 tens. I can regroup the 13 tens into 1 hundred and 3 tens. The product of 27×5 is 135."

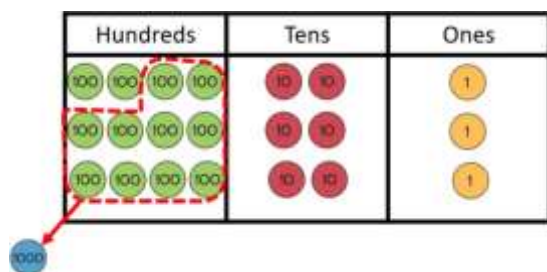
Year 4

NC Statement:

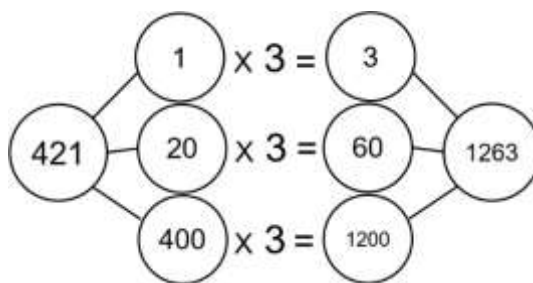
Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout (short multiplication)

4LS24 Step 5: Formal written multiplication with regrouping which generates a new column

Concrete



Pictorial - Jottings



Abstract - Written symbolic

$$\begin{array}{r} 421 \\ \times \quad 3 \\ \hline 1263 \end{array}$$

$$421 \times 3 = 1263$$

Abstract - Speaking frame

... groups of ... ones is ... ones. (*Do I need to regroup?*)
 ... groups of ... tens is ... tens. (*Do I need to regroup?*)
 ... groups of ... hundreds is ... hundreds. (*Do I need to regroup?*)
 (... hundreds can be regrouped to ... thousands and ... hundreds)
 The product of ... and ... is ...

Notes:

At this stage, the pictorial representation is being used as a checking point to ensure that pupils answer accurately. This allows focused attention on understanding the abstract recording.

Pupils should be encouraged to consider whether the italicised language in the speaking frame is required in the calculation.

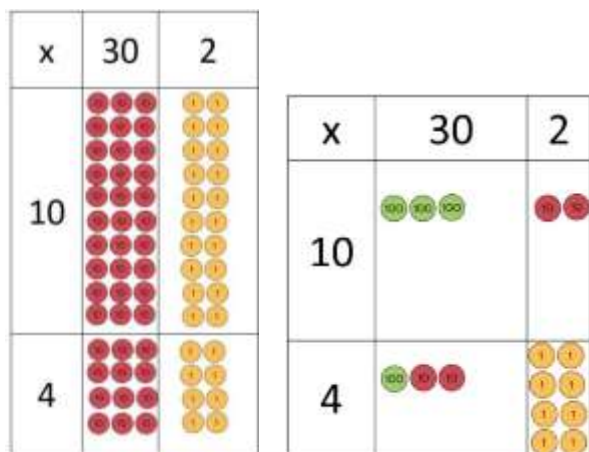
Year 5

NC Statement:

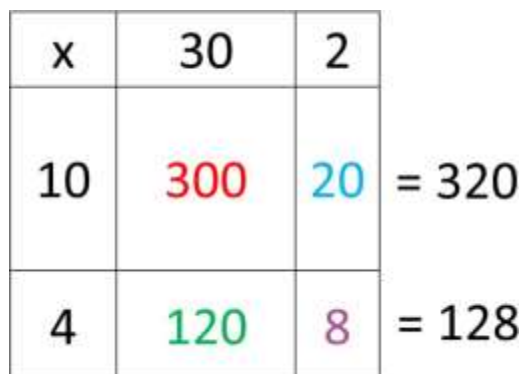
Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

5LS11 Step 2: Expanded vertical multiplication 2-digit by 2-digit

Concrete



Pictorial - Jottings



Abstract - Written symbolic

$$\begin{array}{r} 32 \\ \times 14 \\ \hline 128 \\ 320 \\ \hline 448 \end{array}$$

$$32 \times 14 = 448$$

Abstract - Speaking frame

First, I need to consider the ones in the multiplier.
 ... groups of ... ones is **ones**.
 ... groups of ... tens is **tens**. (Do I need to regroup?)
 Then, tens in the multiplier.
 ... groups of ... ones is **ones**. (Do I need to regroup?)
 ... groups of ... tens is **tens**. (Do I need to regroup?)
 The total of all the partial products is ...
 The product of ... and ... is ...

Notes:

This is a transitional method towards long multiplication. Using the grid supports pupils in their thinking about multiplying by powers of ten and place value. Secure understanding of both of these concepts allow pupils to move to long multiplication more successfully.

Speaking frame hint: linking to what we know and correct place value. For example, 10 groups of 3 tens is 30 tens. This can be regrouped to 3 hundreds.

Year 5

NC Statement:

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

5LS11 Step 3: Long multiplication 2-digit by 2-digit with simple regrouping

Concrete

Hundreds	Tens	Ones



Hundreds	Tens	Ones

Pictorial - Jottings

x	30	2
10	300	20 = 320
4	120	8 = 128

Abstract - Written symbolic

$$\begin{array}{r}
 32 \\
 \times 14 \\
 \hline
 128 \\
 320 \\
 \hline
 448
 \end{array}$$

$$32 \times 14 = 448$$

Abstract - Speaking frame

First, I need to consider the ones in the multiplier.
 ... groups of ... ones is **ones**. (Do I need to regroup?)
 ... groups of ... tens is **tens**. (Do I need to regroup?)
 Then, considering tens in the multiplier.
 ... groups of ... ones is **ones**. (Do I need to regroup?)
 ... groups of ... tens is **tens**. (Do I need to regroup?)
 The total of all the partial products is ...
 The product of ... and ... is ...

Notes:

Speaking frame hint: linking to what we know and correct place value.
 For example, 10 groups of 3 tens is 30 tens (linking to known fact 10×3). This can be regrouped to 3 hundreds.

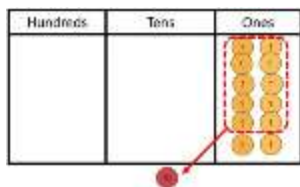
Multiplication

Year 5

NC Statement:

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

5LS11 Step 3: Long multiplication 2-digit by 2-digit, focusing on regroup in first partial product

Concrete**Pictorial**

x	30	2	
10	300	20	= 320
6	180	12	= 192

Abstract - Written symbolic

$$\begin{array}{r}
 \overset{1}{3} \ 2 \\
 \times 1 \ 6 \\
 \hline
 1 \ 9 \ 2 \\
 3 \ 2 \ 0 \\
 \hline
 5 \ 1 \ 2 \\
 \hline
 1
 \end{array}$$

$$32 \times 16 = 512$$

Abstract - Speaking frame

First, I need to consider the ones in the multiplier.
 ... groups of ... ones is ... **ones**. (Do I need to regroup?)
 ... groups of ... tens is ... **tens**. (Any regroup to add? Do I need to regroup?)
 Then, considering tens in the multiplier.
 ... groups of ... ones is ... **ones**. (Do I need to regroup?)
 ... groups of ... tens is ... **tens**. (Do I need to regroup?)
 The total of all the partial products is ...
 The product of ... and ... is ...

Notes:

Speaking frame hint: linking to what we know and correct place value.

For example, 6 groups of 3 tens is 18 tens (linking to known fact $6 \times 3 = 18$). This can be regrouped to 1 hundred and 8 tens.

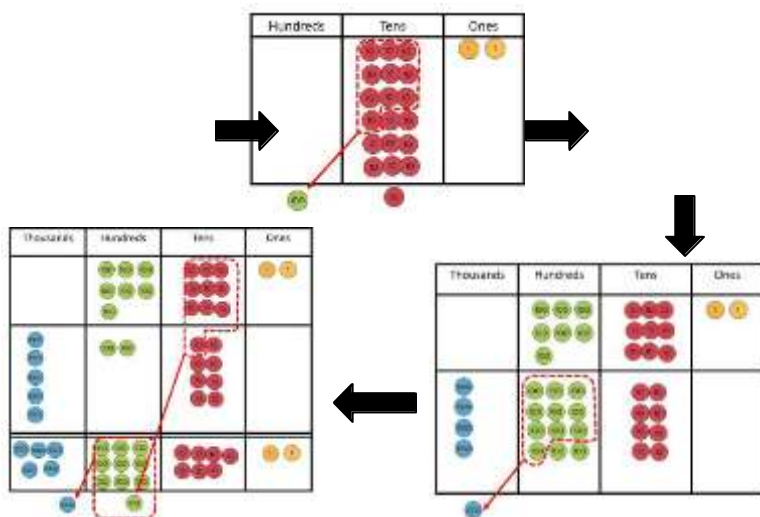
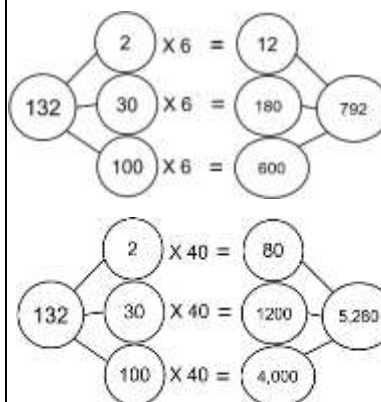
Multiplication

Year 5

NC Statement:

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

5LS11 Step 3: Long multiplication 2-digit by 2-digit regrouping in first and second stage

Concrete**Pictorial - Jottings****Abstract - Written symbolic**

$$\begin{array}{r} 1 1 \\ 132 \\ \times 46 \\ \hline 792 \\ 5280 \\ \hline 6072 \end{array}$$

$$132 \times 46 = 6,072$$

Abstract - Speaking frame

First, I need to consider the ones in the multiplier.
 ... groups of ... ones is ... **ones**. (*Do I need to regroup?*)
 ... groups of ... tens is ... **tens**. (*Any regroups to add? Do I need to regroup?*)
 Then, considering tens in the multiplier.
 ... groups of ... ones is ... **ones**. (*Do I need to regroup?*)
 ... groups of ... tens is ... **tens**. (*Any regroups to add? Do I need to regroup?*)
 The total of all the partial products is ...
 The product of ... and ... is ...

Notes:

Speaking frame hint: linking to what we know and correct place value.

For example, 6 groups of 3 tens is 18 tens (linking to known fact $6 \times 3 = 18$). This can be regrouped to 1 hundred and 8 tens.

Multiplication

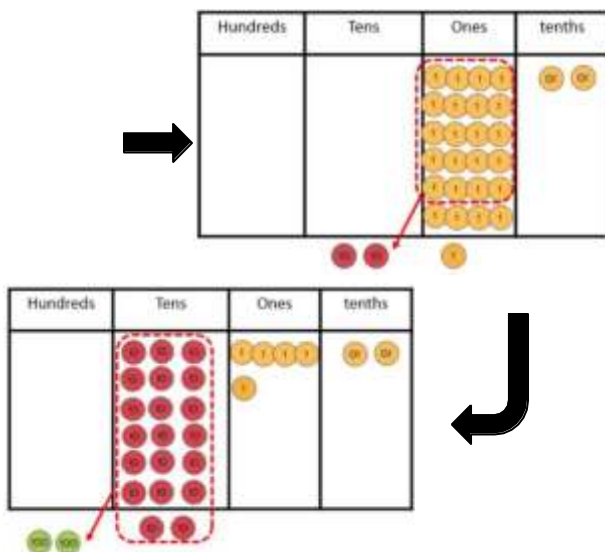
Year 6

NC Statement:

Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers

6LS12 Step 5: Formal written multiplication involving numbers with up to 2 decimal places multiplied by a 1-digit number

Concrete



Pictorial - Jottings

Jottings: multiples of tricky multipliers

6
12
18
24
30
36
42
48
54
60
66
72

Abstract - Written symbolic

$$\begin{array}{r} ^2 ^1 \\ 34.2 \\ \times 6 \\ \hline 205.2 \end{array}$$

$$34.2 \times 6 = 205.2$$

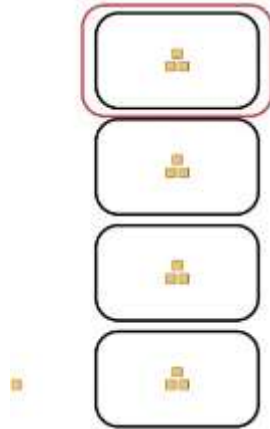

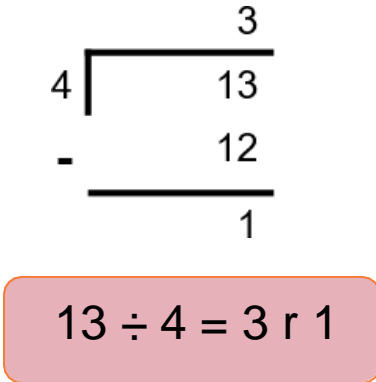
Abstract - Speaking frame

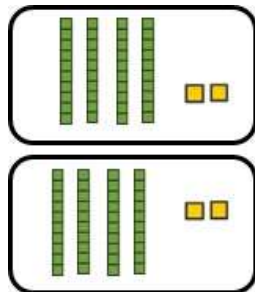
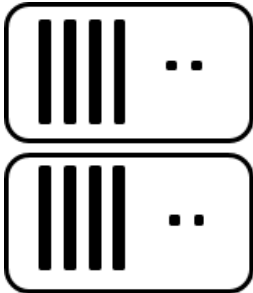

... groups of ... tenths is ... tenths. (Do I need to regroup?)
 ... groups of ... ones is ... ones. (*Any regroupings to add? Do I need to regroup?*)
 ... groups of ... tens is ... tens. (*Any regroupings to add? Do I need to regroup?*)
 The product of ... and ... is

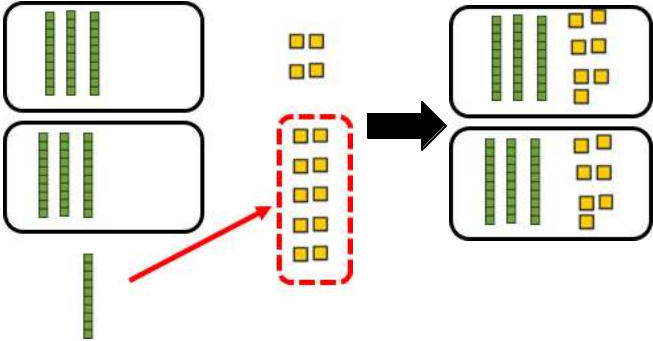
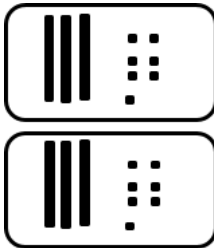
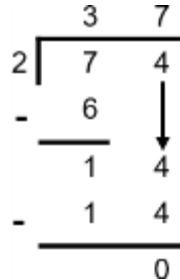
Notes:

Speaking frame hint: linking to what we know and correct place value.
For example, 6 groups of 3 tens is 18 tens (linking to known fact $6 \times 3 = 18$). This can be regrouped to 1 hundred and 8 tens.

Multiplication

Year 3	NC Statement: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods		
3LS30 Step 2: Introducing the long division method (sharing ones)			
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> 	
<p>Abstract - Speaking frame</p> <div><p>I am sharing ... ones into ... equal groups.</p><p>There are ... ones in each group.</p><p>I have ... one(s) remaining.</p><p>The quotient is ... with ... remainders.</p></div>		<p>Notes:</p> <p>Pupils are introduced to the long division method for the first time in this sequence. Short division will not be introduced until pupils have understood all of the stages in this expanded form. In the calculation $96 \div 4$, for example, pupils often struggle to understand that 1 ten will be regrouped after 8 tens have been used in the 4 groups. This is hidden in short division but recorded in long division.</p>	

Year 3	NC Statement: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods		
3LS30 Step 3: Long division of tens and ones with no regrouping (sharing structure)			
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p>  <div>84 ÷ 2 = 42</div>	
<p>Abstract - Speaking frame</p> <div>First, I am sharing ... tens into ... equal groups. There are ... tens in each group. I have ... ten(s) remaining. Then, I am sharing ... ones into ... equal groups. There are ... ones in each group. I have ... one(s) remaining. The quotient is ... with ... remainders.</div>			<p>Notes:</p> <p>This stage is to support pupils' understanding of the abstract notation. They learn to record how many tens are in each group, if there are any tens remaining and what the arrow means.</p> <p>Speaking frame note: "First, I am sharing 8 tens into 2 equal groups. There are 4 tens in each group. I have zero tens remaining. Then, I am sharing 4 ones into 2 equal groups. There are 2 ones in each group. I have zero ones remaining. The quotient is 42 with no remainders."</p>

Year 3	NC Statement: Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods		
3LS30 Step 4: Long division of tens and ones with regrouping (sharing structure)			
<p style="text-align: center;">Concrete</p> 	<p style="text-align: center;">Pictorial</p> 	<p style="text-align: center;">Abstract - Written symbolic</p>  <div style="border: 1px solid black; border-radius: 10px; padding: 10px; text-align: center; margin-top: 10px;">$74 \div 2 = 37$</div>	
<p style="text-align: center;">Abstract - Speaking frame</p> <div style="border: 2px solid orange; border-radius: 20px; padding: 10px; margin-top: 10px;"><p>First, I am sharing ... tens into ... equal groups. There are ... tens in each group. I have ... ten(s) remaining. I need to regroup the remaining ... ten(s) into ... ones. I now have ... ones in total. Then, I am sharing ... ones into ... equal groups. There are ... ones in each group. I have ... one(s) remaining. The quotient is ... with ... remainders.</p></div>		<p>Notes:</p> <p>This is a crucial stage as it demonstrates the regrouping of the remaining tens for ones and how this is recorded abstractly.</p> <p>Speaking frame note: "... I have 1 ten remaining. I need to regroup the remaining 1 ten into 10 ones. I now have 14 ones in total..."</p>	

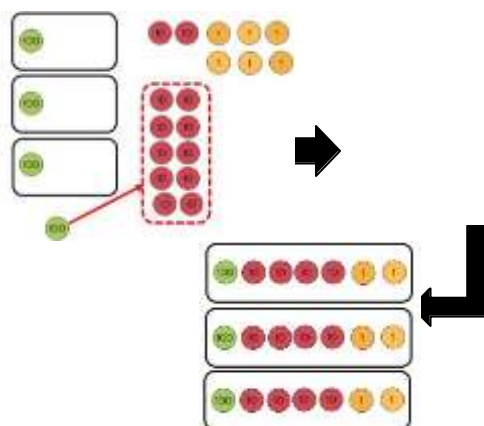
Year 4

NC Statement:

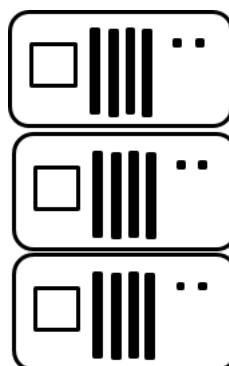
Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (non-statutory guidance)

4LS25 Step 2: Long division with regrouping hundreds into tens (sharing structure)

Concrete



Pictorial



Abstract - Written symbolic

$$\begin{array}{r}
 142 \\
 3 \overline{) 426} \\
 \underline{- 3} \\
 12 \\
 \underline{- 12} \\
 06 \\
 \underline{- 06} \\
 0
 \end{array}$$

$$426 \div 3 = 142$$

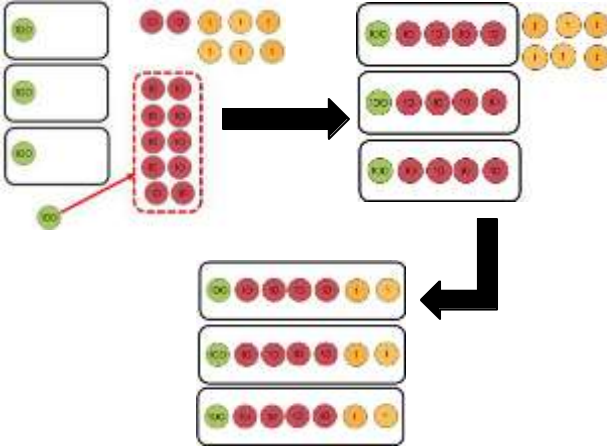
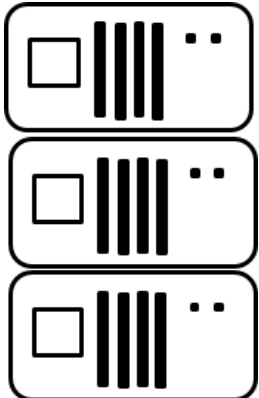
Abstract - Speaking frame

First, I am sharing ... hundreds into ... equal groups.
 There are ... hundreds in each group.
 I have ... hundred(s) remaining.
 I need to regroup the remaining ... hundreds into ... tens.
 I now have ... tens in total.
 Next, I am sharing ... tens into .. equal groups.

Notes:

Pupils revisit long division with no regrouping in 4LS25 step 1. This is to ensure that they understand the abstract recording of long division.

Speaking frame note: This stage is an extension to the previous speaking frame – focusing on the hundreds regroup.

Year 4	NC Statement: Pupils practise to become fluent in the formal written method of short multiplication and short division with exact answers (non-statutory guidance)	
4LS25 Step 4: Introducing formal short division (sharing structure)		
<p>Concrete</p> 	<p>Pictorial</p> 	<p>Abstract - Written symbolic</p> $\begin{array}{r} 142 \\ 3 \overline{) 426} \\ \underline{3} \\ 12 \\ \underline{9} \\ 36 \\ \underline{36} \\ 0 \end{array}$ <div>426 ÷ 3 = 142</div>
<p>Abstract - Speaking frame</p> <div>First, I am sharing ... hundreds into ... equal groups. There are ... hundreds in each group. I have ... hundred(s) remaining. I need to regroup the remaining ... hundreds into ... tens. I now have ... tens in total. Next, I am sharing ... tens into .. equal groups.</div>		<p>Notes:</p> <p>In this stage, pupils learn that the thinking processes for long and short division are the same – it is only the abstract written that is different. It is important that pupils are able to link this to the long division format and can explain the compaction.</p> <p>Speaking frame note: This stage is an extension to the previous speaking frame – focusing on the hundreds regroup.</p>

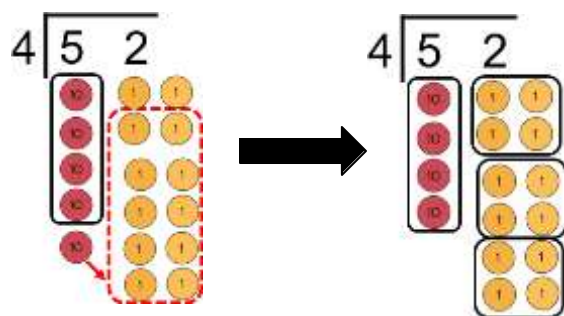
Year 5

NC Statement:

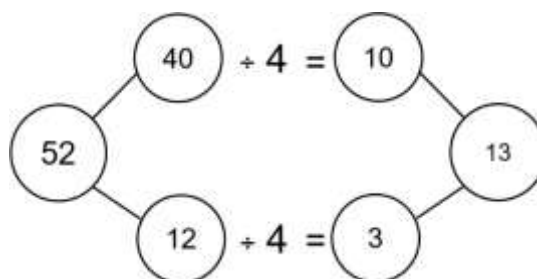
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

5LS12 Step 2: Introducing formal short division regroup from tens to ones (grouping structure)

Concrete



Pictorial - Jottings



Abstract - Written symbolic

$$\begin{array}{r} 13 \\ 4 \overline{) 52} \\ \underline{40} \\ 12 \\ \underline{12} \\ 0 \end{array}$$

$$52 \div 4 = 13$$

Abstract - Speaking frame

I want to know how many groups of ... are in
 How many groups of ... tens are in ... tens without regrouping?
 I can make ... group(s) of ... tens. There is/are ... ten(s) remaining.
 I need to regroup the ... tens into ... **ones**.
 I now have ... ones.
 How many groups of ... ones are in ... ones, without regrouping?
 I can make ... group(s) of ... ones. There is/are ... one(s) remaining.
 There are ... groups of ... in ... with ... remainders.

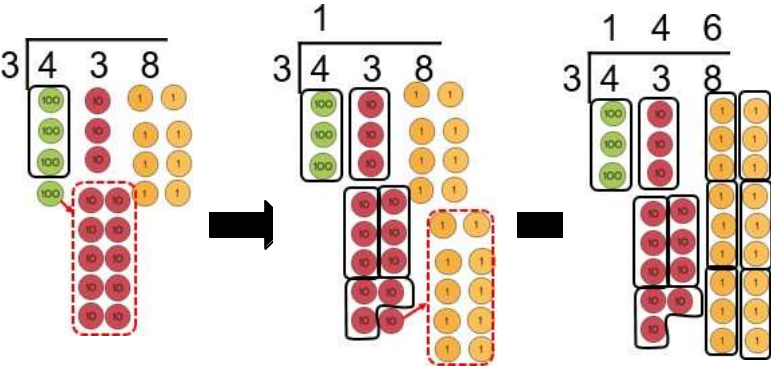
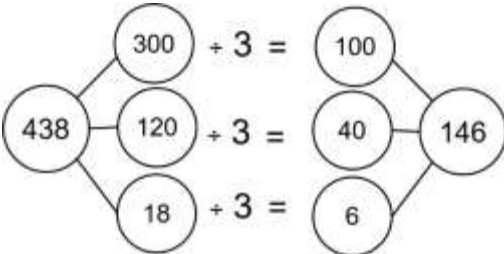
Notes:

Pupils are encouraged to progress to a grouping model of division. This is in preparation for 2-digit divisors and understanding fractions expressed as part of the quotient.

Pupils should explore with simple division calculations to ensure that they understand the shift in structure.

Speaking frame note: In this example, the speaking frame would be completed like this: "How many groups of 3 tens are in 4 tens, without regrouping?"

This is to ensure that accurate place value and magnitude is maintained.

<h1>Year 5</h1>	<p>NC Statement:</p> <p>Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context</p>
<p>5LS12 Step 3: Short division for numbers up to 4-digits (grouping structure)</p>	
<p>Concrete</p> 	<div data-bbox="904 379 1431 930"> <p>Pictorial - Jottings</p>  </div> <div data-bbox="1431 379 1973 930"> <p>Abstract - Written symbolic</p> $\begin{array}{r} 146 \\ 3 \overline{) 438} \end{array}$ <p>438 ÷ 3 = 146</p> </div>
<p>Abstract - Speaking frame</p> <p>I want to know how many groups of ... are in How many groups of ... hundreds are in ... hundreds, without regrouping? I can make ... group(s) of ...hundreds. There is/are ... hundred(s) remaining. I need to regroup the ... hundreds into ...tens.</p>	<p>Notes:</p> <p>Speaking frame note: This is an extension to the previous speaking frame. In this example, the speaking frame would be completed like this: “How many groups of 3 hundreds are in 4 hundreds, without regrouping?” This is to ensure that accurate place value and magnitude is maintained.</p>

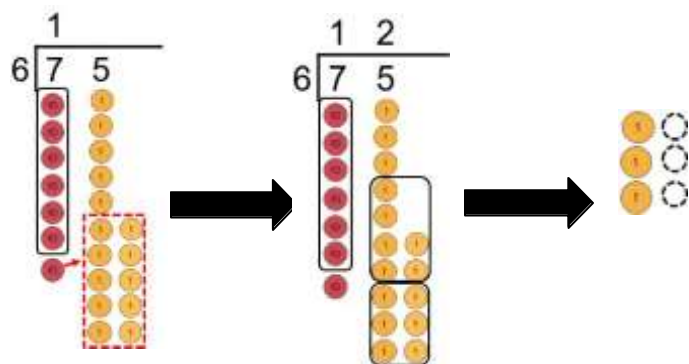
Year 5

NC Statement:

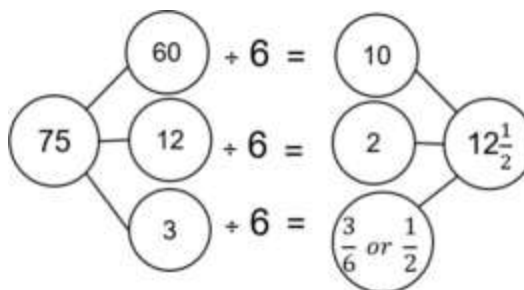
Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

5LS12 Step 4: Short division (grouping structure) - expressing quotients with fractions

Concrete



Pictorial



Abstract - Written symbolic

$$6 \overline{) 75} \begin{matrix} 12 \\ 15 \end{matrix}$$

$$75 \div 6 = 12\frac{1}{2}$$

Abstract - Speaking frame

I have a remainder of

This is ... (remainder) out of ... (divisor) which I need for another group.

This can be written as a fraction — .

This can be simplified to — .

Notes:

Speaking frame note: This is an extension to the previous speaking frame (5LS12 Step 2). In this example the speaking frame would be completed like this:

"I have a remainder of 3.

This is 3 out of 6 which I need for another group.

This can be written as a fraction $\frac{3}{6}$.

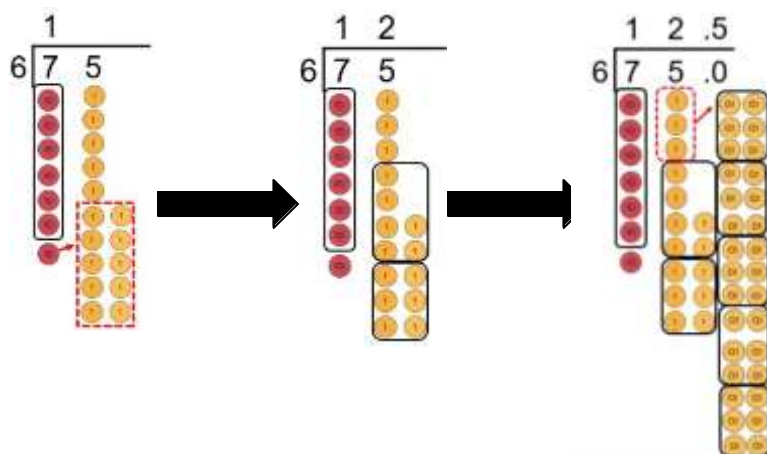
This can be simplified to $\frac{1}{2}$."

Year 5

NC Statement:

Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context

5LS12 Step 5: Short division (grouping structure) - expressing quotients with decimals

Concrete**Pictorial - Jottings**

Jottings: multiples of the divisor

6
12
18
24
30
36
42
48
54
60

Abstract - Written symbolic

$$\begin{array}{r} 12.5 \\ 6 \overline{) 75.0} \end{array}$$

$$75 \div 6 = 12.5$$

Abstract - Speaking frame

I have a remainder of ...
I need to regroup the ... ones into ... tenths.
How many groups of ... tenths are in ... tenths, without regrouping?
I can make ... group(s) of ... tenths.

There are ... groups of ... in ...

Notes:

Speaking frame note: This is an extension to the previous speaking frame (5LS12 Step 2). In this example, the speaking frame would be completed like this:

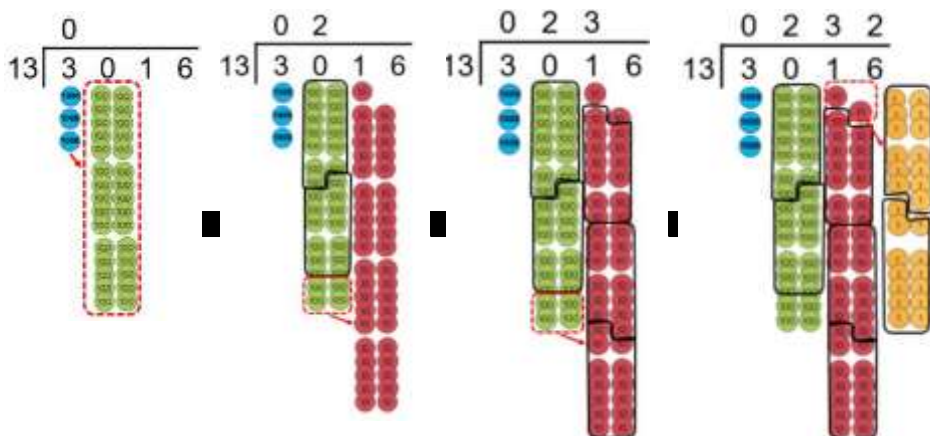
"I have a remainder of 3.
I need to regroup the 3 ones into 30 tenths.
How many groups of 6 tenths are in 30 tenths, without regrouping?
I can make 5 groups of 6 tenths.
There are 12.5 groups of 6 in 75."

Year 6

NC Statement:

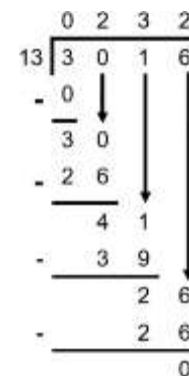
Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context

6LS17 Step 2: Long division for numbers up to 4 digits

Concrete**Pictorial - Jottings**

Jottings: multiples of the divisor

13
26
39
52
65
78
91
104

Abstract - Written symbolic

$$3016 \div 13 = 232$$

Abstract - Speaking frame

I want to know how many groups of ... are in
How many groups of ... thousand are in ...thousand, without regrouping?
I can make ... group(s) of ...thousand. There is/are ... thousand(s) remaining.
I need to regroup the ... thousand(s) into ...hundreds.

Notes:

The structure of long division was first introduced in 3LS30, then revisited and extended in both years 4 and 5. It was revised in Step 1 of this sequence. Jottings are used to scaffold to derived related division facts.

Speaking frame note: This is an extension to the previous speaking frame (5LS12 Step 2). In this example, the speaking frame would be completed like this:

“How many groups of 13 thousands are in 3 thousand, without regrouping?” I can make zero groups of 13 thousand. There are 3 thousand remaining. I need to regroup the 3 thousands into 30 hundreds.”

Written Calculation Progression

These additional examples show only jottings, completed speaking frames and abstract recording. This complexity of calculation should only be introduced to pupils once they are confident in the conceptual pathway and can explain the abstract recording with reference to the concrete and pictorial models.

<p>Additional Year 6 examples</p> <p>Year 6</p>	<p>NC Statement:</p> <p>Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context</p>
<p>6LS17 Step 4: Long division for numbers up to 4 digits - expressing quotients with fractions</p>	
<p>Abstract speaking frame</p> <div data-bbox="152 651 913 1074" style="border: 2px solid orange; border-radius: 15px; padding: 10px; margin: 10px;"> <p>I have a remainder of 9.</p> <p>This is 9 out of the 15 which I need for another group.</p> <p>This can be written as a fraction $\frac{9}{15}$.</p> <p>This can be simplified to $\frac{3}{5}$.</p> <p>There are $37\frac{3}{5}$ in each of the 15 groups.</p> </div>	<p>Pictorial - Jottings</p> <p><i>Jottings: multiples of the divisor</i></p> <div data-bbox="1115 651 1169 1026" style="text-align: center;"> <p>15</p> <p>30</p> <p>45</p> <p>60</p> <p>75</p> <p>90</p> <p>105</p> <p>120</p> <p>135</p> <p>150</p> </div> <p>Abstract - Written symbolic</p> <div data-bbox="1518 563 1798 1114" style="text-align: center;"> $\begin{array}{r} 0 \quad 3 \quad 7 \quad \frac{3}{5} \\ 15 \overline{) 564} \\ \underline{- 0} \\ 56 \\ \underline{- 45} \\ 114 \\ \underline{- 105} \\ 9 \end{array}$ $\frac{9}{15} = \frac{3}{5}$ </div> <div data-bbox="1447 1185 1899 1305" style="border: 1px solid blue; border-radius: 10px; padding: 10px; margin: 10px; text-align: center;"> <p>$564 \div 15 = 37\frac{3}{5}$</p> </div>

Additional Year 6 examples

Additional Year 6 examples	NC Statement: Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division and interpret remainders as whole number remainders , fractions, or by rounding, as appropriate for the context	
6LS17 Step 5: Long division for numbers up to 4 digits - expressing quotients with decimals		
<div>Abstract speaking frame</div> <div>I have a remainder of 9. I need to regroup the 9 ones into 90 tenths. How many groups of 15 tenths are in 90 tenths, without regrouping? I can make 6 groups of 15 tenths. There is nothing remaining. There are 37.6 groups of 15 in 564.</div>	<div>Pictorial - Jottings</div> <div>Jottings: multiples of the divisor</div> <div>15 30 45 60 75 90 105 120 135 150</div>	<div>Abstract - Written symbolic</div> <div><div>564 ÷ 15 = 37.6</div></div>

<p>Additional Year 6 examples</p> <p>Year 6</p>	<p>NC Statement:</p> <p>Multiply multi-digit numbers of up to 4-digits by a two-digit whole number using the formal written method of long multiplication</p>	
<p>6LS12 Step 3: Long multiplication; up to 4-digit by 2-digit</p>		
<p>Abstract speaking frame</p> <div style="border: 2px solid orange; border-radius: 20px; padding: 10px; margin: 10px;"> <p>First, I need to consider the ones in the multiplier.</p> <p>7 groups of 6 ones is 42 ones.</p> <p>I need to regroup into 4 tens and 2 ones.</p> <p>7 groups of 3 tens is 21 tens.</p> <p>I need to add the regrouped 4 tens. I now have 25 tens.</p> <p>I need to regroup into 2 hundreds and 5 tens.</p> <p>7 groups of 8 hundreds is 56 hundreds.</p> <p>I need to add the regrouped 2 hundreds. I now have 58 hundreds. I can regroup this into 5 thousands and 8 hundreds.</p> <p>Then, considering the tens in the multiplier.</p> <p>20 groups of 6 ones is 120 ones.</p> <p>I need to regroup into 1 hundred and 2 tens.</p> <p>20 groups of 3 tens is 6 hundreds.</p> <p>I need to add the regrouped 1 hundred. I now have 7 hundreds.</p> <p>20 groups of 8 hundred is 16 thousand. There are no regroupings to add.</p> <p>The total of the two partial products is 22, 572.</p> <p>The product of 836 and 27 is 22, 572.</p> </div>	<p>Pictorial - Jottings</p> <p>Jottings: multiples of tricky multipliers</p> <div style="display: flex; align-items: center;"> <div style="width: 50px; text-align: right;"> <p>7</p> <p>14</p> <p>21</p> <p>28</p> <p>35</p> <p>42</p> <p>49</p> <p>56</p> <p>63</p> <p>70</p> <p>77</p> <p>84</p> </div> </div>	<p>Abstract - Written symbolic</p> <div style="text-align: center; margin: 10px;"> $\begin{array}{r} ^{\textcolor{red}{1}} \\ ^{\textcolor{teal}{2}} ^{\textcolor{teal}{4}} \\ 836 \\ \times 27 \\ \hline \textcolor{teal}{5}8\textcolor{teal}{5}2 \\ \textcolor{red}{1}6\textcolor{red}{7}20 \\ \hline 22572 \\ 1 1 \end{array}$ </div> <div style="border: 1px solid blue; border-radius: 10px; padding: 10px; margin: 10px; text-align: center;"> <p>836 x 27 = 22,572</p> </div>