

# St George's C of E Primary School

## Calculation Policy 2022



**ST GEORGE'S**  
CHURCH OF ENGLAND  
PRIMARY SCHOOL

## Key Stage 1 – Addition

Y1

Through practical activities in meaningful contexts and informal written methods.

- Recall number bonds to 20 and within 20.
- Pictures and Marks – 1 more / 2 more.

There are 3 cars in the garage. 1 more came along.

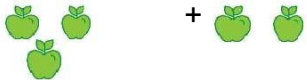


$$3 + 1 = 4$$



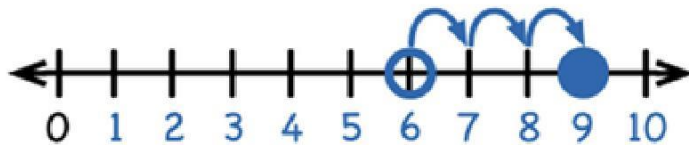
$$4 + 1 = 5$$

Terry has 3 apples and Tony has 2 apples. How many altogether?



- Number lines to 20.

$$6 + 3 = 9$$



- Derive related facts to 20.

$$\square = 5 + 4$$

$$5 + 4 = \square$$

$$\square + 4 = 9$$

$$\square + \square = 9$$



- Money and addition up to 20p.

- Read, write and interpret mathematical statement involving addition (+) and equals (=).

Video clips:

[Using a range of equipment and strategies to reinforce addition statements](#)

**National Curriculum requirements:**

Add 1 digit and 2 digit numbers to 20, including 0.

Y2

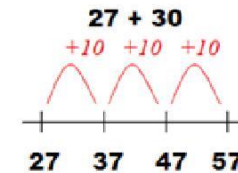
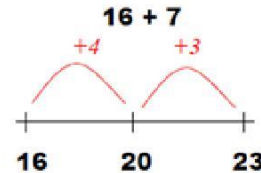
Through practical activities in meaningful contexts and informal written methods.

- Fluent recall of bonds to 20 and within 20.
- Derive and use related facts up to 100.

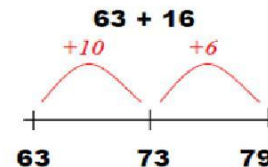


- Addition of money up to £1.

- Add numbers using concrete objects, pictorial representations and mentally.



- Show that addition of two numbers can be done in any order (commutative).
- Recognise and use the inverse relationship between addition and subtraction.
- Progressing to partitioned column method (in preparation for year 3).



20	+	3	
+ 30	+	4	
50		+	7
		=	<u>57</u>

**National Curriculum requirements:**

(using concrete objects, pictorial representations and mentally)

Add 2 digit numbers and ones.

Add 2 digit number and tens.

Add two 2 digit numbers.

Add three 1 digit numbers.

## Year 2 and Key Stage 2 – Addition

Y2/3

- Continue with partitioned column method.
- Introduce expanded column addition.

	H	T	O
2	3	6	
+	7	3	
		9	
1	0	0	
2	0	0	
3	0	9	

Progressing to the compact column method.

<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">T O</td><td style="text-align: right;">H T O</td></tr> <tr><td style="text-align: right;">23</td><td style="text-align: right;">315</td></tr> <tr><td style="text-align: right;">+ 42</td><td style="text-align: right;">+ 624</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">65</td><td style="border-top: 1px solid black; text-align: right;">939</td></tr> </table>	T O	H T O	23	315	+ 42	+ 624	65	939	<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">T O</td><td style="text-align: right;">H T O</td></tr> <tr><td style="text-align: right;">94</td><td style="text-align: right;">561</td></tr> <tr><td style="text-align: right;">+ 73</td><td style="text-align: right;">+ 718</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">167</td><td style="border-top: 1px solid black; text-align: right;">1279</td></tr> </table>	T O	H T O	94	561	+ 73	+ 718	167	1279	<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">T O</td><td style="text-align: right;">H T O</td></tr> <tr><td style="text-align: right;">47</td><td style="text-align: right;">237</td></tr> <tr><td style="text-align: right;">+ 25</td><td style="text-align: right;">+ 516</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">72</td><td style="border-top: 1px solid black; text-align: right;">753</td></tr> <tr><td style="text-align: right;">1</td><td style="text-align: right;">1</td></tr> </table>	T O	H T O	47	237	+ 25	+ 516	72	753	1	1
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72	753																											
1	1																											

- Add money using both £ and pence in practical contexts.

### Video clip:

[Demonstration of expanded 3 digit column addition](#)

### National Curriculum requirements:

Add numbers with up to 3 digits, using the formal written method of column addition.

Y4

- Continue with column addition.

<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">H T O</td></tr> <tr><td style="text-align: right;">371</td></tr> <tr><td style="text-align: right;">+ 485</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">856</td></tr> <tr><td style="text-align: right;">1</td></tr> </table>	H T O	371	+ 485	856	1	<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">H T O</td></tr> <tr><td style="text-align: right;">376</td></tr> <tr><td style="text-align: right;">+ 485</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">861</td></tr> <tr><td style="text-align: right;">1 1</td></tr> </table>	H T O	376	+ 485	861	1 1	<table style="border-collapse: collapse; width: 100%;"> <tr><td style="text-align: right;">Th H T O</td></tr> <tr><td style="text-align: right;">2 388</td></tr> <tr><td style="text-align: right;">+ 1 124</td></tr> <tr><td style="border-top: 1px solid black; text-align: right;">3 512</td></tr> <tr><td style="text-align: right;">11</td></tr> </table>	Th H T O	2 388	+ 1 124	3 512	11
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+ 1 124																	
3 512																	
11																	

- Estimate and use inverse operations to check answers to a calculation.
- Add money using both £ and pence in practical contexts.

### National Curriculum requirements:

Add numbers with up to 4 digits, using the formal written method of column addition.

## Key Stage 2 – Addition

Y5

- Continue to use column addition, adding numbers with more than 4 digits.

$$\begin{array}{r}
 32879 + \\
 35987 \\
 \hline
 68866
 \end{array}$$

- Addition of money and decimals.

$$\begin{array}{r}
 \text{£}23.59 \\
 + \text{£}7.55 \\
 \hline
 \text{£}31.14
 \end{array}$$

$$\begin{array}{r}
 19.01 \\
 3.65 \\
 + 0.70 \\
 \hline
 23.36
 \end{array}$$

### National Curriculum requirements:

Add whole numbers with more than 4 digits, using the formal written method of column addition.

Y6

- Add several numbers of increasing complexity using column addition.

$$\begin{array}{r}
 23.361 \\
 9.080 \\
 59.770 \\
 + 1.300 \\
 \hline
 93.511 \\
 \begin{array}{l} 2 \quad 1 \quad 2 \end{array}
 \end{array}$$

$$\begin{array}{r}
 81,059 \\
 3,668 \\
 15,301 \\
 + 20,551 \\
 \hline
 120,579 \\
 \begin{array}{l} 1 \quad 1 \quad 1 \quad 1 \end{array}
 \end{array}$$

### National Curriculum requirements:

Add whole numbers with more than 4 digits, using the formal written method of column addition.

## Key Stage 1 – Subtraction

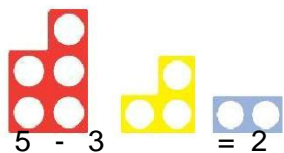
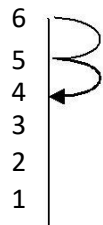
Y1

Through practical and meaningful contexts and informal written methods.

- We made 6 cakes. We ate 2 of them. How many cakes are left?



- Link to vertical number line  $6 - 2 =$



- Represent and use number bonds within 20.
- Record using subtraction ( $-$ ) and equals signs ( $=$ )
- Derive related facts up to 20.

$$\begin{array}{ll} 5 - ? = 3 & ? = 5 - 2 \\ 5 - 2 = ? & 3 = ? - 2 \\ ? - 2 = 3 & \\ 3 = 5 - ? & \end{array}$$



- Counting back on a 100 square and a vertical number line.

### National Curriculum requirements:

Subtract 1 digit and 2 digit numbers up to 20, including 0.  
Represent and use number bonds and related subtraction facts.

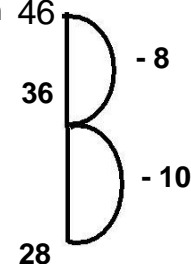
Y2

Through practical and meaningful contexts.

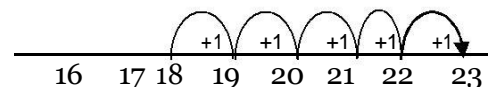
- Fluent recall of bonds to 20 and within 20.
- Derive and use related facts up to 100  
e.g.  $10 - 7 = 3$  so  $100 - 70 = 30$ .
- Counting back by partitioning second number. Subtract the ones first to

be in line with columnar subtraction 46

$$\begin{array}{r} \text{E.g. } 46 - 18 \\ 46 - 10 - 8 \end{array}$$



$$23 - 18 = 5$$



- Recognise and use the inverse relationship between addition and subtraction
- Show that subtraction is not commutative (done in any order)
- Progressing to the partitioned columnar method in preparation for year 3
- Subtraction of money, including change.

### National Curriculum requirements:

(using concrete objects, pictorial representations and mentally)

Subtract 2 digit numbers and ones.

Subtract 2 digit number and tens.

Subtract two 2 digit numbers.

Subtract three 1 digit numbers.

## Key Stage 2 – Subtraction

Y3

- Continue with vertical number line subtraction progressing to the expanded column subtraction method.

$$89 - 35 = 54$$

$$80 + 9$$

$$- \underline{30} \pm \underline{5}$$

$$\underline{50} \pm \underline{4} = 54$$

- Introduce exchanging through the expanded column subtraction method.

$$72 - 47$$



$$\cancel{60} \cancel{10} + 12$$

$$- \underline{40} \pm \underline{7}$$

$$\underline{20} \pm \underline{5} = 25$$

- Progressing on to compact column subtraction.

$\begin{array}{r} \text{T O} \\ 47 \\ - 23 \\ \hline 24 \end{array}$	$\begin{array}{r} \text{H T O} \\ 864 \\ - 621 \\ \hline 243 \end{array}$	$\begin{array}{r} \text{T O} \\ \overset{4}{\cancel{5}}1 \\ - 36 \\ \hline 15 \end{array}$
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- Emphasise value of digit, e.g. 4 tens subtract 2 tens = 2 tens. Use the correct language for subtraction i.e. exchange rather than borrow.
- Subtract amounts of money to give change.

### Video clips:

[Subtraction - teaching children to consider the most appropriate methods before calculating](#)

[Introducing partitioned column subtraction method, from practical to written](#)

### National Curriculum requirements:

Subtract numbers with up to 3 digits using the formal written method of column subtraction.

Y4

- Continue with partitioned column subtraction progressing to compact column subtraction.

$\begin{array}{r} \text{H T O} \\ \overset{3}{\cancel{4}}\overset{2}{\cancel{3}}7 - \\ \hline 182 \\ \hline 255 \end{array}$	$\begin{array}{r} \text{H T O} \\ \overset{3}{\cancel{4}}\overset{2}{\cancel{3}}\overset{1}{\cancel{2}} - \\ \hline 187 \\ \hline 245 \end{array}$	$\begin{array}{r} \text{H T O} \\ \overset{5}{\cancel{6}}\overset{9}{\cancel{0}}4 - \\ \hline 347 \\ \hline 257 \end{array}$	$\begin{array}{r} \text{Th H T O} \\ 8426 - \\ \hline 2177 \\ \hline 6249 \end{array}$
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- Estimate and use inverse operations to check answers to a calculation.
- Subtract amounts of money using column method.

### Video clips:

[Subtraction - teaching children to consider the most appropriate methods before calculating](#)

[Introducing partitioned column subtraction method, from practical to written](#)

[Moving to the compact column method of subtraction](#)

### National Curriculum requirements:

Subtract numbers up to 4 digits using the formal written method of column subtraction.

## Key Stage 2 – Subtraction

Y5

- Continue with compact column subtraction, including subtraction of decimals.

$$\begin{array}{r}
 \overset{2}{\cancel{3}} \overset{10}{\cancel{1}} \overset{10}{0} \overset{4}{\cancel{5}} \overset{1}{6} \\
 - \quad \quad 2128 \\
 \hline
 28,928
 \end{array}$$

$$\begin{array}{r}
 \overset{6}{\cancel{7}} \overset{10}{\cancel{1}} \overset{1}{6} \overset{8}{\cancel{9}} \cdot \overset{1}{0} \\
 - \quad 372 \cdot 5 \\
 \hline
 6796 \cdot 5
 \end{array}$$

- Use rounding to check answers to calculations and to determine, in the context of a problem, levels of accuracy.

### Video clip:

[Moving to the compact column method of subtraction](#)

### National Curriculum requirements:

Subtract numbers with more than 4 digits.

Y6

- Continue with compact column subtraction, including subtraction of decimals.

$$\begin{array}{r}
 \overset{0}{\cancel{1}} \overset{14}{\cancel{5}} \overset{10}{\cancel{10}} \overset{1}{6} \overset{1}{9} \overset{1}{9} \\
 - \quad 89,949 \\
 \hline
 60,750
 \end{array}$$

$$\begin{array}{r}
 \overset{1}{\cancel{1}} \overset{10}{\cancel{10}} \overset{1}{5} \cdot \overset{3}{\cancel{4}} \overset{1}{1} \overset{1}{9} \text{ kg} \\
 - \quad 36 \cdot 08 \text{ kg} \\
 \hline
 69 \cdot 339 \text{ kg}
 \end{array}$$

- Use estimation to check answers to calculations and to determine, in the context of a problem, levels of accuracy.

### National Curriculum requirements:

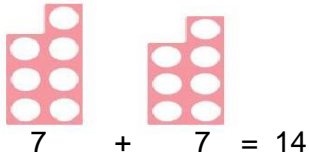
Subtract numbers with more than 4 digits.

## Key Stage 1 – Multiplication

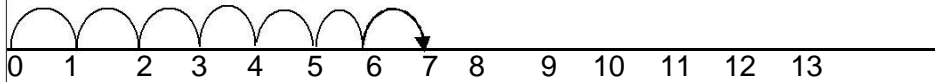
Y1

Through practical activities and meaningful contexts using concrete objects, pictorial representations and arrays with the support of the teacher.

- Doubles.



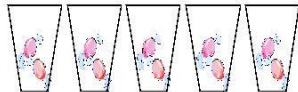
- Make connections between arrays, number patterns and counting in 2s, 5's to 50 and 10's to 100.
- Use of number lines.



- “100 Square” to count in 2s, 5s and 10s.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

- There are 2 sweets in one bag. How many sweets are there in 5 bags?



- Counting multiples of coins: 2p, 5p, 10p.



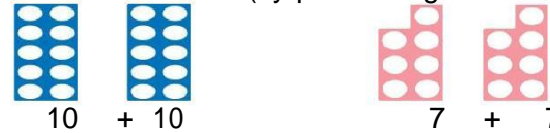
### National Curriculum requirements:

Solve one step problems involving multiplication, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.

Y2

Through practical activities and meaningful contexts using concrete objects, pictorial representations and arrays.

- Double numbers (by partitioning and recombining)  $17 + 17$ .



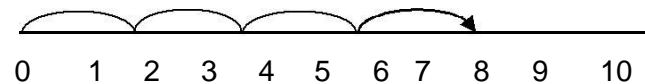
- Understand multiplication as repeated addition/groups/lots.
- Read arrays.



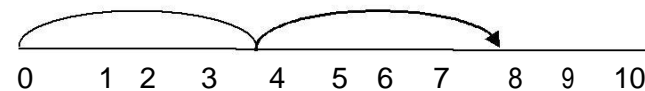
$2 \times 4$  (2, 4 times)

- Repeated addition on a number line.

$2 + 2 + 2 + 2$  (4 groups of 2, 2 four times,  $2 \times 4$ )



$4 + 4$  (2 groups of 4, 4 two times,  $4 \times 2$ )



- Know the multiplication tables for 2, 5 and 10.
- Calculate mathematical statements within the multiplication tables using the multiplication (x) and equals (=) signs.
- Show that the multiplication of two numbers can be done in any order (commutative).

**Video clips:** [Teaching for understanding of multiplication facts](#)  
[Practical multiplication and the commutative law](#)

### National Curriculum requirements:

Solve problems involving multiplication using materials, arrays, mental methods and multiplication facts.

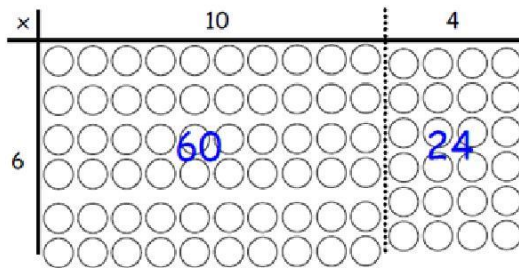
## Key Stage 2 – Multiplication

**Y3**

- Recall and use multiplication tables for 3, 4 and 8.
- Continue to use arrays and number lines/Cuisenaire rods for 3, 4 and 8 multiplication tables.
- Write and calculate mathematical statements for multiplication. Statements to include the multiplication tables that they know and 2 digit numbers x 1 digit numbers. Pupils use mental methods and progress to formal written methods.

- Introduce grid model.

$$\begin{array}{r|l} \times & 104 \\ 6 & 60 + 24 = 84 \end{array}$$



- Progressing to expanded method of multiplication.

$$\begin{array}{r} \text{T O} \\ 32 \\ \times 3 \\ \hline 96 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 51 \\ \times 2 \\ \hline 102 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 38 \\ \times 7 \\ \hline 266 \\ 5 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ 202 \\ \times 4 \\ \hline 808 \end{array}$$

$$\begin{array}{r} \text{H T O} \\ \square \square \\ \times 4 \\ \hline 612 \\ 2 \quad 1 \end{array}$$

**Video clips:** [Teaching the grid method as an interim step](#)

(Partitioning and counters to introduce grid).

**National Curriculum requirements:** Multiply 2 digits by 1 digit, using mental and progressing to formal written methods.

**Y4**

- Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).
- Continue using grid method and expanded method as appropriate, progressing to short multiplication.

x	100	30	6
5	500	150	30



	3	2	7
x			4
	1	3	0
		8	
	1	2	

- Short Multiplication.

No carrying	Extra digit	Carrying	Zeros	Ext.
$\begin{array}{r} \text{T O} \\ 32 \\ \times 3 \\ \hline 96 \end{array}$	$\begin{array}{r} \text{H T O} \\ 51 \\ \times 2 \\ \hline 102 \end{array}$	$\begin{array}{r} \text{H T O} \\ 38 \\ \times 7 \\ \hline 266 \\ 5 \end{array}$	$\begin{array}{r} \text{H T O} \\ 202 \\ \times 4 \\ \hline 808 \end{array}$	$\begin{array}{r} \text{H T O} \\ \square \square \\ \times 4 \\ \hline 612 \\ 2 \quad 1 \end{array}$

**National Curriculum requirements:**

Multiply 2 digits by 1 digit using formal written layout.

Multiply 3 digits by 1 digit using formal written layout.

## Key Stage 2 – Multiplication

Y5

- Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).
- Continue to practise short multiplication.
- Use Grid Method to introduce long multiplication.

	10	8
10	100	80
3	30	24



		1	8
	×	1	3
		5	4
		1	8
		2	3

### Video clips:

[Moving from grid method to a compact method](#)

[Reinforcing rapid times table recall](#)

[Demonstration of long multiplication](#)

### National Curriculum requirements:

Multiply numbers up to 4 digits by a 1 digit number using the formal written method of short multiplication.

Multiply numbers up to 4 digits by a 2 digit number using the formal written method of long multiplication.

Multiple whole numbers and those involving decimals by 10, 100, 1000.

Y6

- Recall and use multiplication tables up to 12x12 (Including multiplying by 0 and 1).
- Continue to practise short multiplication.
- Continue to practise long multiplication.

		3	6	5	2
	×				8
		2	9	2	1
		5	4		

		1	2	3	4
	×			1	6
		7	4	0	4
		1	2	3	4
		1	9	7	4

- Multiply decimals using the grid method and progressing on to short multiplication.
- Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy.

### Video clips:

[Moving from grid method to a compact method](#)

[Reinforcing rapid times table recall](#)

[Demonstration of long multiplication](#)

### National Curriculum requirements:

Multiply up to 4 digits by 2 digits using the formal written method of long multiplication.

Multiply numbers by 10, 100, 1000 giving answers up to 3 decimal places.

# Key Stage 1 – Division

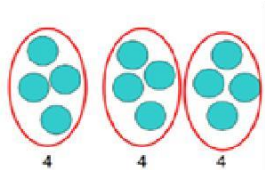
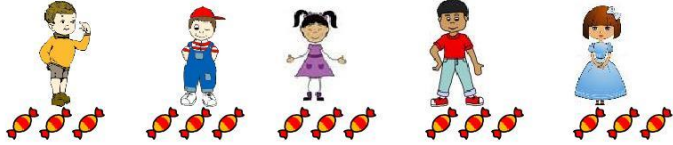
Y1

Through practical activities in meaningful contexts.

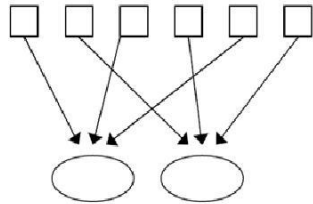
- Division as sharing.

Emphasise the importance of sharing equally.

Share a bag of 15 sweets between 5 children – one for you, one for you, one for you, one for you, one for me.



12 shared between 3 is 4



This is an important stage in teaching the difference between *grouping* and *sharing*.

- Introduce halving even numbers up to 10. E.g. Half of 4:



## National Curriculum Requirements:

Solve one step problems involving division, by calculating the answer by using concrete objects, pictorial representations and arrays with support.

Y2

Through practical activities in meaningful contexts.

- Recall and use division facts for 2, 5 and 10 times tables.
- Continue to use division as sharing.
- Division as grouping.

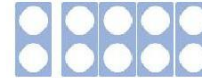


- 15 children get into teams of 5 to play a game. How many teams are there?



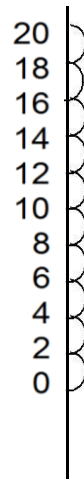
How many groups of 5 in 15?

How many 5s have been counted?



- How many 2s in 10?

- Understand '÷ 2' as 'half of'.
- Understand that division is not commutative.
- Recognise relationship between x and ÷
- Record using division (÷) and equals (=) signs.
- Use number lines to answer questions such as  $20 \div 2 =$



## National Curriculum Requirements:

Solve problems involving division using materials, mental methods and division facts.

## Key Stage 2 – Division

Y3

- Recall and use division facts for 3, 4, and 8 times tables.
- Continue with repeated subtraction on a vertical number line.
- Write and calculate mathematical statements for division using the tables they know.
- Introduce grouping method before short division, encourage children to estimate answers before attempting calculation. Create fact box to encourage efficient grouping e.g. not always groups of 10 - 1x, 2x, 5x, 10x, 20x, 50x, 100x.

$$\begin{array}{r}
 13 \\
 5 \overline{) 65} \\
 \underline{- 50} \quad (5 \times 10) \\
 15 \\
 \underline{- 15} \quad (5 \times 3) \\
 0
 \end{array}$$

- Introduce short division, with exact answers.

$$\begin{array}{r}
 32 \\
 3 \overline{) 96}
 \end{array}$$

- Progressing to short division involving carrying, with exact answers.

### National Curriculum requirements:

Division questions based on multiplication tables they know.

Divide 2 digits by 1 digit, progressing to formal written methods.

Y4

- Recall and use all division facts for all tables up to 12 (Including dividing by 1).
- Continue with short division method.

$$\begin{array}{r}
 18 \\
 4 \overline{) 72}
 \end{array}$$

$$\begin{array}{r}
 037 \\
 5 \overline{) 185}
 \end{array}$$

$$\begin{array}{r}
 218 \\
 4 \overline{) 872}
 \end{array}$$

- Progressing to short division with remainders.

$  \begin{array}{r}  204 \\  4 \overline{) 816}  \end{array}  $	$  \begin{array}{r}  141 \text{ r } 1 \\  3 \overline{) 421}  \end{array}  $
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### National Curriculum requirements:

Divide 2 digits by 1 digit and 3 digits by 1 digit becoming fluent with formal written method of short division with exact answers and progressing to remainders.

## Key Stage 2 – Division

Y5

- Consolidate the use of the formal written method of short division.

$$\begin{array}{r} 0663r5 \\ 8 \overline{)53029} \end{array}$$

### National Curriculum requirements:

Divide 2 digits by 1 digit.  
Divide 3 digits by 1 digit.  
Divide 4 digits by 1 digit.

Children interpret the remainders appropriately for the context.  
e.g. as fractions, decimals or by rounding  
 $98 \div 4 = 98/4 = 24r2 = 24 \frac{1}{2} = 24.5$  rounded to 25

Divide whole numbers and those involving decimals by 10, 100, 1000.

Y6

- Consolidate short division.
- Children should be able to interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.

$98 \div 7$  becomes

$$\begin{array}{r} 14 \\ 7 \overline{)98} \end{array}$$

- Answer: 14

$432 \div 5$  becomes

$$\begin{array}{r} 86r2 \\ 5 \overline{)432} \end{array}$$

Answer: 86 remainder 2

$496 \div 11$  becomes

$$\begin{array}{r} 45r1 \\ 11 \overline{)496} \end{array}$$

Answer:  $45 \frac{1}{11}$

- Introduce long division.

$432 \div 15$  becomes

$$\begin{array}{r} 28r12 \\ 15 \overline{)432} \\ \underline{300} \\ 132 \\ \underline{120} \\ 12 \end{array}$$

Answer: 28 remainder 12

$432 \div 15$  becomes

$$\begin{array}{r} 28 \\ 15 \overline{)432} \\ \underline{300} \quad 15 \times 20 \\ \underline{132} \\ 120 \quad 15 \times 8 \\ \underline{120} \\ 0 \end{array}$$

Answer:  $28 \frac{4}{5}$

$432 \div 15$  becomes

$$\begin{array}{r} 28.8 \\ 15 \overline{)432.0} \\ \underline{300} \quad \downarrow \\ \underline{132} \quad \downarrow \\ \underline{120} \quad \downarrow \\ 120 \\ \underline{120} \\ 0 \end{array}$$

Answer: 28.8

**N.B:** The above examples are taken from the National Curriculum for Mathematics appendix.

### National Curriculum requirements:

Divide numbers up to 4 digits by a 2 digit number using the formal written method of short division where appropriate.

Divide up to 4 digits by a 2 digits whole number using the formal written method of long division.