

Birley Spa Primary Academy Calculation Policy (Upper Key Stage 2)

Year 5

- Addition
- Subtraction
- Multiplication
- <u>Division</u>

Year 6

- Addition
- Subtraction
- Multiplication
- Division



UPPER KEY STAGE 2

In upper Key Stage 2, children build on secure foundations in calculation, and develop fluency, accuracy and flexibility in their approach to the four operations. They work with whole numbers and adapt their skills to work with decimals, and they continue to develop their ability to select appropriate, accurate and efficient operations. They should be exposed to a variety of strategies, including non- efficient strategies, in order to have the experience of critiquing methods and making informed decisions about the ones they choose to use. They should be able to make connections between the different methods.

Key language: decimal, column methods, exchange, partition, mental method, ten thousand, hundred thousand, million, factor, multiple, prime number, square number, cube number

Addition and subtraction: Children build on their column methods to add and subtract numbers with up to seven digits, and they adapt the methods to calculate efficiently and effectively with decimals, ensuring understanding of place value at every stage.

Children compare and contrast methods, and they select mental methods or jottings where appropriate and where these are more likely to be efficient or accurate when compared with formal column methods.

Bar models are used to represent the calculations required to solve problems and may indicate where efficient methods can be chosen.

Multiplication and division: Building on their understanding, children develop methods to multiply up to 4-digit numbers by single-digit and 2-digit numbers.

Children use the grid method as a stepping-stone to understanding column methods with an understanding of place value, and they continue to use the key skill of unitising to multiply and divide by 10, 100 and 1,000.

Written division methods are built on and adapted for division by single-digit and 2-digit numbers and are understood alongside the area model and place value. In Year 6, children develop a secure understanding of how division is related to fractions.

Multiplication and division of decimals are also introduced and refined in Year 6.

Fractions: Children find fractions of amounts, multiply a fraction by a whole number and by another fraction, divide a fraction by a whole number, and add and subtract fractions with different denominators. Children become more confident working with improper fractions and mixed numbers and can calculate with them. Understanding of decimals with up to 3 decimal places is built through place value and as fractions, and children calculate with decimals in the context of measure as well as in pure arithmetic.

Children develop an understanding of percentages in relation to hundredths, and they understand how to work with common percentages: 50%, 25%, 10% and 1%.

	<u>Year 5</u>					
	Concrete	Pictorial	Abstract			
<u>Year 5</u> Addition						
Column addition with whole numbers	Use place value equipment to represent additions. Add a row of counters onto the place value grid to show 15,735 + 4,012.	Represent additions, using place value equipment on a place value grid alongside written methods. The the toexchange 10 tens for a 100. The the toexchange 10 tens for a 100. The the toexchange 10 tens for a 100.	Use column addition, including exchanges TTh Th			
Representing additions		Bar models represent addition of two or more numbers in the context of problem solving. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Use approximation to check whether answers are reasonable. TTh Th			
Adding tenths	Link measure with addition of decimals. Two lengths of fencing are 0.6 m and 0.2 m. How long are they when added together?	Use a bar model with a number line to add tenths.	Understand the link with adding fractions. $\frac{6}{10} + \frac{2}{10} = \frac{8}{10}$			

Birley Spa Primary	Academy		
A L.E.A.D. Academy	0·6 m 0·2 m	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6 tenths + 2 tenths = 8 tenths 0·6 + 0·2 = 0·8
Adding decimals using column addition	Use place value equipment to represent additions. Show 0.23 + 0.45 using place value counters.	Use place value equipment on a place value grid to represent additions. Represent exchange where necessary. O Tth Hth O Q Q P O Q Q Q P O Q	Add using a column method, ensuring that children understand the link with place value. $ \frac{O \cdot \text{Tth Hth}}{0 \cdot 2 \cdot 3} \\ + \frac{0 \cdot 4 \cdot 5}{0 \cdot 6 \cdot 8} $ Include exchange where required, alongside an understanding of place value. $ \frac{O \cdot \text{Tth Hth}}{0 \cdot 9 \cdot 2} \\ + \frac{0 \cdot 3 \cdot 3}{1 \cdot 2 \cdot 5} $ Include additions where the numbers of decimal places are different. $ 3.4 + 0.65 = ? $ $ \frac{O \cdot \text{Tth Hth}}{3 \cdot 4 \cdot 0} \\ + \frac{0 \cdot 6 \cdot 5}{5} $
Year 5 Subtraction			
Column subtraction with whole numbers	Use place value equipment to understand where exchanges are required. 2,250 – 1,070	Represent the stages of the calculation using place value equipment on a grid alongside the calculation, including exchanges where required.	Use column subtraction methods with exchange where required.

Birley Spa Primary	Academy		
A L.E.A.D. Academy		15,735 - 2,582 = 13,153 TTh Th H T O	$ \frac{\text{TTh Th } \text{ H } \text{ T } \text{ O}}{\frac{5}{8} $
Checking strategies and representing subtractions		Bar models represent subtractions in problem contexts, including 'find the difference'. Athletics Stadium 75,450 Hockey Centre 42,300 Velodrome 15,735	Children can explain the mistake made when the columns have not been ordered correctly. Bella's working
Choosing efficient methods			To subtract two large numbers that are close, children find the difference by counting on. $2,002 - 1,995 = ?$ Use addition to check subtractions. I calculated $7,546 - 2,355 = 5,191$. I will check using the inverse.
Subtracting	Explore complements to a whole number by	Use a place value grid to represent the	Use column subtraction, with an

Birley Spa Primary Academy

decimals

working in the context of length.



$$Im - m = m$$

$$1 - 0.49 = ?$$

stages of column subtraction, including exchanges where required.

$$5.74 - 2.25 = ?$$

	0	•	Tth	Hth	0		Tth	Hth
	00000	10000	01 01 01 01	300 00 30	5		7	4
		•	OI DI		 2	•	2	5

Exchange I tenth for IO hundredths.

0	•	Tth	Hth
00000	•	0 0 0 0 0	50 00 00 00 00 50 00 00 00 00 50 00 00 00

Now subtract the 5 hundredths.

0	•	Tth	Hth
0000	•		

Now subtract the 2 tenths, then the 2 ones.

0	•	Tth	Hth
00000	•		

understanding of place value, including subtracting numbers with different numbers of decimal places.

$$3.921 - 3.75 = ?$$

O · Tth Hth 5 - 67 14 - 2 · 2 5

> O · Tth Hth 5 - 67 14

O · Tth Hth 5 . 67 14 - 2 · 2 5

	0	٠	Tth	Hth	Thth
	3		q	2	1
-	3	•	7	5	0

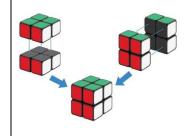
Year 5 **Multiplication**

Understanding factors

Use cubes or counters to explore the meaning of 'square numbers'.

25 is a square number because it is made from 5 rows of 5.

Use cubes to explore cube numbers.



Use images to explore examples and nonexamples of square numbers.



$$8 \times 8 = 64$$

 $8^2 = 64$



Understand the pattern of square numbers in the multiplication tables.

Use a multiplication grid to circle each square number. Can children spot a pattern?

Multiplying up
to 4-digit
numbers by a
single digit

$$8 \times 17 = ?$$

	100	60	3
5	$100 \times 5 = 500$	60 × 5 = 300	3 × 5 = 15

Use a column multiplication, including any required exchanges.

Birlev Spa Primarv A L.E.A.D. Academy	8 × 10 = 80
	80 + 56 = 136 So, 8 × 17 = 136
Multiplying 2- digit numbers by 2-digit numbers	Partition one number add the parts. 23 x 15 = ?

Н	T	0
000	10 10 10 10	000
00	000000	000
000	10 10 10 10	000
(10)	10 10 10 10	000
(00)	000000	000

	Ī	3	6
×			6
-	8	1	6
-	2	3	

Partition one number into 10s and 1s, then add the parts.

 $8 \times 7 = 56$

H T O

1 5 0

1 5 0

+ 4 5



 $10 \times 15 = 150$



3 × 15 = 4

There are 345 bottles of milk in total.

$$23 \times 15 = 345$$

Use an area model and add the parts.

$$28 \times 15 = ?$$

3	20 m	8 m
10 m	20 × I0 = 200 m ²	8 × 10 = 80 m ²
5 m	20 × 5 = 100 m ²	8 × 5 = 40 m ²

$$28 \times 15 = 420$$

Use column multiplication, ensuring understanding of place value at each stage.

3 4

H T O

4 2 0

Multiplying up to 4-digits by 2-digits Use the area model then add the parts.

Use column multiplication, ensuring understanding of place value at each stage.

Birley Spa Primary	Academy		
A L.E.A.D. Academy		100 40 3 Th H T O 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Multiplying decimals by 10, 100 and 1,000	Use place value equipment to explore and understand the exchange of 10 tenths, 10 hundredths or 10 thousandths.	Represent multiplication by 10 as exchange on a place value grid.	Understand how this exchange is represented on a place value chart.

Birlev Spa Primary	Academy		
Year 5		0 • Tth Hth	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Understanding factors and	Use equipment to explore the factors of a given number.	Understand that prime numbers are numbers with exactly two factors.	Understand how to recognise prime and composite numbers.
prime numbers	24 ÷ 3 = 8 24 ÷ 8 = 3 8 and 3 are factors of 24 because they divide 24 exactly. 24 ÷ 5 = 4 remainder 4. 5 is not a factor of 24 because there is a remainder.	$13 \div 1 = 13$ $13 \div 2 = 6 r 1$ $13 \div 4 = 4 r 1$ 1 and 13 are the only factors of 13. 13 is a prime number.	I know that 31 is a prime number because it can be divided by only 1 and itself without leaving a remainder. I know that 33 is not a prime number as it can be divided by 1, 3, 11 and 33. I know that 1 is not a prime number, as it has only 1 factor.
Understanding inverse operations and the link with multiplication, grouping and sharing	Use equipment to group and share and to explore the calculations that are present. I have 28 counters. I made 7 groups of 4. There are 28 in total. I have 28 in total. I shared them equally into 7 groups. There are 4 in each group. I have 28 in total. I made groups of 4. There	Represent multiplicative relationships and explore the families of division facts. $60 \div 4 = 15$ $60 \div 15 = 4$	Represent the different multiplicative relationships to solve problems requiring inverse operations. 2 ÷ 3 =

Birlev Spa Primary	Academy		
A L.E.A.D. Academy	are 7 equal groups.		them using inverse operations. $22 \div ? = 2$ $22 \div 2 = ?$ $? \div 2 = 22$ $? \div 22 = 2$
Dividing whole numbers by 10, 100 and 1,000	Use place value equipment to support unitising for division. $4,000 \div 1,000$ $4,000 \times 1,000 \times 1,000$	Use a bar model to support dividing by unitising. $380 \div 10 = 38$ $380 \div 10 = 38$ 380	Understand how and why the digits change on a place value grid when dividing by 10, 100 or 1,000. The property of the proper
Dividing by multiples of 10, 100 and 1,000	Use place value equipment to represent known facts and unitising. 15 ones put into groups of 3 ones. There are 5 groups. $15 \div 3 = 5$ 15 tens put into groups of 3 tens. There are 5 groups. $150 \div 30 = 5$	Represent related facts with place value equipment when dividing by unitising. 180 is 18 tens. 18 tens divided into groups of 3 tens. There are 6 groups. 180 ÷ 30 = 6	Reason from known facts, based on understanding of unitising. Use knowledge of the inverse relationship to check. $3,000 \div 5 = 600$ $3,000 \div 50 = 60$ $3,000 \div 500 = 6$ $5 \times 600 = 3,000$ $50 \times 60 = 3,000$ $500 \times 6 = 3,000$

Birley Spa Primary	Academy		
A L.E.A.D. Academy	ACAGEMY	12 ones divided into groups of 4. There are 3 groups. 12 hundreds divided into groups of 4 hundreds. There are 3 groups. 12 $0 + 400 = 3$	
Dividing up to four digits by a single digit using short division	Explore grouping using place value equipment. $268 \div 2 = ?$ There is 1 group of 2 hundreds. There are 3 groups of 2 tens. There are 4 groups of 2 ones. $264 \div 2 = 134$	Use place value equipment on a place value grid alongside short division. The model uses grouping. A sharing model can also be used, although the model would need adapting. Too 4 4 8 Too 5 4 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Use short division for up to 4-digit numbers divided by a single digit. $ \begin{array}{cccc} 0 & 5 & 5 & 6 \\ 7 & 3 & 8 & 9 & 42 \end{array} $ $ 3,892 \div 7 = 556 $ Use multiplication to check. $ 556 \times 7 = ? $ $ 6 \times 7 = 42 $ $ 50 \times 7 = 350 $ $ 500 \times 7 = 3500 $ $ 3,500 + 350 + 42 = 3,892 $

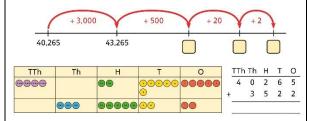
Birley Spa Primary	Academv		_
A L.E.A.D. Academy		1.5 is 1 one and 5 tenths. This is equivalent to 10 tenths and 50 hundredths. 10 tenths divided by 10 is 1 tenth. 50 hundredths. 1.5 divided by 10 is 1 tenth and 5 hundredths. 1.5 divided by 10 is 1 tenth and 5 hundredths. 1.5 divided by 10 is 1 tenth and 5 hundredths. 1.5 ÷ 10 = 0.15	$0.85 \div 10 = 0.085$ $0 \bullet \text{ Tth Hth Thth}$ $8 \bullet 5$ $0 \bullet 0 \Rightarrow 8 \Rightarrow 5$ $8.5 \div 100 = 0.085$
Understanding the relationship between fractions and division	Use sharing to explore the link between fractions and division. 1 whole shared between 3 people. Each person receives one-third.	Use a bar model and other fraction representations to show the link between fractions and division. I \div 3 = $\frac{1}{3}$	Use the link between division and fractions to calculate divisions. $5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$ $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$
		<u>Year 6</u>	
	Concrete	Pictorial	Abstract
Year 6			
Addition			

and selecting efficient methods

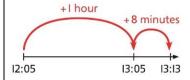
grid, and use this to support thinking and mental methods.

M	HTh	TTh	Th	Н	T	0
••	••••	•	•	•••		•

between methods, and choose efficient methods based on the specific calculation. Compare written and mental methods alongside place value representations.



Use bar model and number line representations to model addition in problem-solving and measure contexts.



are not efficient. Recognise common errors with column addition.

$$32,145 + 4,302 = ?$$



Which method has been completed accurately?

What mistake has been made?

Column methods are also used for decimal additions where mental methods are not efficient.

Selecting mental methods for larger numbers where appropriate Represent 7-digit numbers on a place value grid, and use this to support thinking and mental methods.

M	HTh	TTh	Th	H	Т	0
	0000		•	000		

2,411,301 + 500,000 = ?

This would be 5 more counters in the HTh place.

So, the total is 2,911,301.

Use a bar model to support thinking in addition problems.

I added 100 thousands then subtracted 1 thousand.

257 thousands + 100 thousands = 357 thousands

Use place value and unitising to support mental calculations with larger numbers.

$$195,000 + 6,000 = ?$$

$$195 + 5 + 1 = 201$$

195 thousands + 6 thousands = 201 thousands

So,
$$195,000 + 6,000 = 201,000$$

Birley Spa Primary	Academy		
A L.E.A.D. Academy	2,411,301 + 500,000 = 2,911,301	257,000 + 100,000 = 357,000 357,000 - 1,000 = 356,000 So, 257,000 + 99,000 = 356,000	
Understanding order of operations in calculations	Use equipment to model different interpretations of a calculation with more than one operation. Explore different results. $3 \times 5 - 2 = ?$	Model calculations using a bar model to demonstrate the correct order of operations in multi-step calculations. $ \begin{array}{c} 16\times4 \\ \text{cab} \\ \text{cab} \\ \text{trailer} \\ \text{6} \\ \text{6} \\ \text{6} \\ \text{6} \\ \text{6} \\ \text{4} \\ \text{5} \\ \text{6} $	Understand the correct order of operations in calculations without brackets. Understand how brackets affect the order of operations in a calculation. $4 + 6 \times 16$ $4 + 96 = 100$ $(4 + 6) \times 16$ $10 \times 16 = 160$
Year 6 Subtraction			
Comparing and selecting efficient methods	Use counters on a place value grid to represent subtractions of larger numbers.	Compare subtraction methods alongside place value representations. The Horizontal Transfer of the compared of	Compare and select methods. Use column subtraction when mental methods are not efficient. Use two different methods for one calculation as a checking strategy. The Heat Tolding in the context of measure.

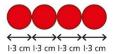
Birley Spa Primary	Academy		
A L.E.A.D. Academy		including 'find the difference' with two bars as comparison. computer game puzzle book f12·50	H T O · Tth Hth 3 0 9 · 6 0 - 2 0 6 · 4 0 1 0 3 · 2 0
Subtracting mentally with larger numbers		Use a bar model to show how unitising can support mental calculations. 950,000 - 150,000 That is 950 thousands - 150 thousands 950 950 So, the difference is 800 thousands. 950,000 - 150,000 = 800,000	Subtract efficiently from powers of 10. $10,000 - 500 = ?$
Year 6 Multiplication			
Multiplying up to a 4-digit number by a single digit number	Use equipment to explore multiplications. Th H T O O O O O O O O O O O O O O O O O O	Use place value equipment to compare methods. Method I 3 2 2 5 3 2 2 5 3 2 2 5 3 2 2 5 1 2 9 0 0 1 1 2 Method 2 Method 2 Method 2 Method 2 Method 2	Understand area model and short multiplication. Compare and select appropriate methods for specific multiplications. Method 3 3,000 200 20 5 4 12,000 800 80 20 12,000 + 800 + 80 + 20 = 12,900 Method 4 3 2 2 5 × 4 1 2 9 0 0 1 2
Multiplying up to a 4-digit			Use compact column multiplication with understanding of place value at all stages.

Birley Spa Primary	Academy		
number by a 2-digit number			1 2 3 5
Using knowledge of factors and partitions to compare methods for multiplications	Use equipment to understand square numbers and cube numbers. $5 \times 5 = 5^2 = 25$ $5 \times 5 \times 5 = 5^3 = 25 \times 5 = 125$	Compare methods visually using an area model. Understand that multiple approaches will produce the same answer if completed accurately. 20 5,200 × 20	Use a known fact to generate families of related facts. 170 × II
Multiplying by 10, 100 and 1,000	Use place value equipment to explore exchange in decimal multiplication. To the place value equipment to explore exchange in decimal multiplication. To the place value equipment to explore exchange in decimal multiplication. To the place value equipment to explore exchange in decimal multiplication. To the place value equipment to explore exchange in decimal multiplication.	Understand how the exchange affects decimal numbers on a place value grid.	Use knowledge of multiplying by 10, 100 and 1,000 to multiply by multiples of 10, 100 and 1,000. $8 \times 100 = 800$ $8 \times 300 = 800 \times 3$ $= 2,400$ $2.5 \times 10 = 25$ $2.5 \times 20 = 2.5 \times 10 \times 2$ $= 50$

Birlev Spa Primary A	\cac
A L.E.A.D. Academy	

Birley Spa Primary	Academy
A L.E.A.D. Academy	0·3 is 3 tenths. 10 × 3 tenths are 30 tenths. 30 tenths are equivalent to 3 ones.
Multiplying decimals	Explore decimal multiplications using place value equipment and in the context of measures.

3 groups of 4 tenths is 12 tenths. 4 groups of 3 tenths is 12 tenths.



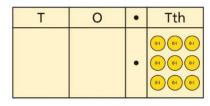
 $4 \times 1 \text{ cm} = 4 \text{ cm}$ $4 \times 0.3 \text{ cm} = 1.2 \text{ cm}$ $4 \times 1.3 = 4 + 1.2 = 5.2$ cm



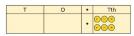
Represent calculations on a place value grid.

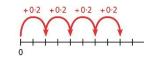
$$3 \times 3 = 9$$

$$3 \times 0.3 = 0.9$$



Understand the link between multiplying decimals and repeated addition.





Use known facts to multiply decimals.

$$4 \times 3 = 12$$

$$4 \times 0.3 = 1.2$$

$$4 \times 0.03 = 0.12$$

$$20 \times 5 = 100$$

$$20 \times 0.5 = 10$$

$$20 \times 0.05 = 1$$

Find families of facts from a known multiplication.

I know that $18 \times 4 = 72$.

This can help me work out:

$$1.8 \times 4 = ?$$

$$18 \times 0.4 = ?$$

$$180 \times 0.4 = ?$$

$$18 \times 0.04 = ?$$

Use a place value grid to understand the effects of multiplying decimals.

	Н	Т	0	•	Tth	Hth
2 × 3			6	•		
0·2 × 3			0	•	6	
0·02 × 3				•		

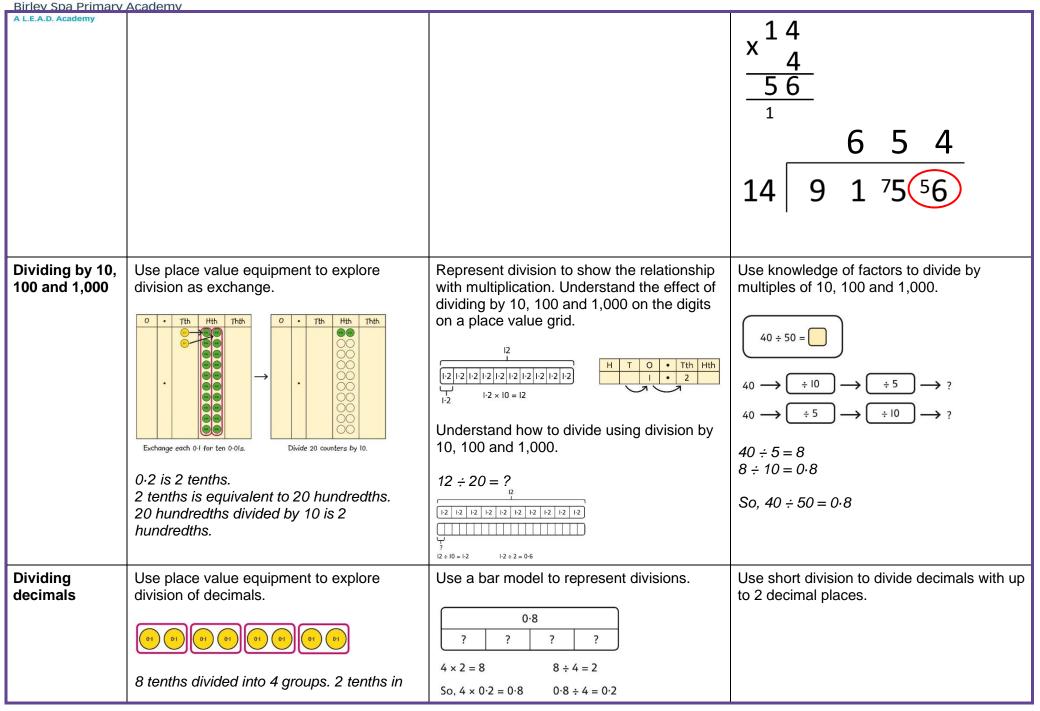
Υ	ea	r	6
	ca		U

Birley Spa Primary Division	Academv		
Understanding factors	Use equipment to explore different factors of a number. 24 ÷ 4 = 6 30 ÷ 4 = 7 remainder 2	Recognise prime numbers as numbers having exactly two factors. Understand the link with division and remainders.	Recognise and know primes up to 100. Understand that 2 is the only even prime, and that 1 is not a prime number. 1 2 3 4 5 6 7 8 9 10 1 12 13 14 15 16 17 18 19 20 2 2 2 2 2 2 2 2 2
Dividing by a	4 is a factor of 24 but is not a factor of 30. Use equipment to make groups from a total.	H T O How many 0	41 42 43 44 45 46 47 48 49 50 Use short division to divide by a single digit
single digit	There are 78 in total. There are 6 groups of 13. There are 13 groups of 6.	H T O How many groups of 6 1 13 12	0 6 1 3 2 0 2 6 1 3 2
			Use an area model to link multiplication and division.
			? $10 10 1 1$ $6 132 6 60 60 60 6 6$ $6 20 2$ $6 120 12$ $132 = 120 + 12$ $132 \div 6 = 20 + 2 = 22$
Dividing by a 2-digit number using factors	Understand that division by factors can be used when dividing by a number that is not prime.	Use factors and repeated division. $1,260 \div 14 = ?$	Use factors and repeated division where appropriate. 2,100 ÷ 12 = ?

Birley Spa Primary Academy		
A L.E.A.D. Academy	$1,260 \div 2 = 630$ $630 \div 7 = 90$ $1,260 \div 14 = 90$	$ \begin{array}{c} 2,100 \longrightarrow \left[\begin{array}{c} \pm 2 \\ \end{array} \right] \longrightarrow \left[\begin{array}{c} \pm 6 \\ \end{array} \right] \longrightarrow \\ 2,100 \longrightarrow \left[\begin{array}{c} \pm 6 \\ \end{array} \right] \longrightarrow \left[\begin{array}{c} \pm 2 \\ \end{array} \right] \longrightarrow \\ 2,100 \longrightarrow \left[\begin{array}{c} \pm 3 \\ \end{array} \right] \longrightarrow \left[\begin{array}{c} \pm 4 \\ \end{array} \right] \longrightarrow \\ 2,100 \longrightarrow \left[\begin{array}{c} \pm 4 \\ \end{array} \right] \longrightarrow \left[\begin{array}{c} \pm 2 \\ \end{array} \right] \longrightarrow \left[\begin{array}{c} \pm 2 \\ \end{array} \right] \longrightarrow $
Dividing by a 2-digit number using short division- method for calculating the correct amount of the divisor required- method 1		9156 \div 14 14 9 1 5 6 To help children calculate how many groups of 14 they can make out of 91 hundreds, children think flexibly using known multiplication facts to help calculate unknown facts, e.g. I know that 14 x 10 = 140 (too big) 14 x 5 = half of 14 x 10 = 70 (too small) 14 x 2 = 28 14 x 7 = (14 x 2) + (14 x 5) = 28 + 70 = 98 (a bit too big) so the closest must be 14 x 6: (14 x 5) + (14 x 1) = 70 + 14 = 84.
Dividing by a 2-digit number using short division- method for calculating the correct amount of the divisor required- method 2		9156 ÷ 14 14 9 1 5 6 To help children calculate how many groups of 14 they can make out of 91 hundreds, children make a sensible estimation then check using multiplication:

Birlev Spa Primary	Δcademy	
A L.E.A.D. Academy		
		$ \begin{array}{c} x & 1 & 4 \\ \hline & 5 \\ \hline & 7 & 0 \\ \hline & 2 \end{array} $ A bit too small
		X 6 One more lot of 14 would be too big so I've found it.
Dividing by a 2-digit number using short division- using jottings		9156 ÷ 14 It is important that children spread out the digits in the dividend when writing out the calculation, leaving at least one square in between each digit, as sometimes the remainders are two digits.
		Use one of the above methods to calculate the closest number of whole 14s equal to or below 91. 6 14 9 1 5 6
		Only if necessary (most children will be able to do this mentally), use a written method to calculate the remainder:

Birley Spa Primary Acad	demy	
Birlev Spa Primary Acad A L.E.A.D. Academy		0
		81
		$\mathfrak{G}^{\scriptscriptstyle \perp}$ 1
		- 1 -
		8 4
		$\phantom{0$
		C
		6
		4.4
		$14 \mid 9 \mid 1(75) \mid 6 \mid$
		Deposit the process As shildren work
		Repeat the process. As children work
		through the calculation, they may find that
		they already have the answer in their
		jottings from previous steps.
		14
		x^{-4} $75 - 70 = 5$
		^ 5
		70
		<u> 70</u>
		2
		6 5
		<u> </u>
		14 9 1 75 56
		T4 2 T 2 0
		'



Birley Spa Primary Academy			
A L.E.A.D. Academy	each group.		8 4 · 2 4
			0 · 8 4 · ⁴ 2 4
			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$