Upper KS2 calculation policy

The following pages show the progression in calculation (addition, subtraction, multiplication and division) in Upper Key Stage 2 at St Mary's Fields Primary School and how this works in line with the National Curriculum. The consistent use of the CPA (concrete, pictorial, abstract) approach helps children develop mastery across all the operations in an efficient and reliable way. This policy shows how these methods develop children's confidence in their understanding of both written and mental methods.

UPPER KEY STAGE 2

In Years 5 and 6, 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.

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 develop 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 introduced 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.

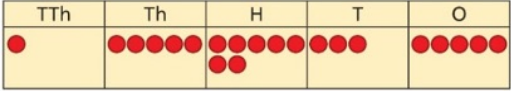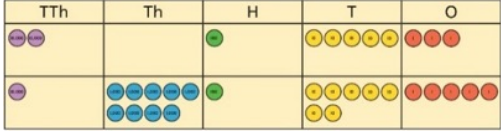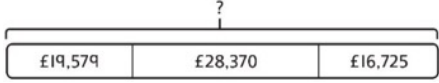Multiplication and division of decimals are also introduced and refined in Year 6.

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.
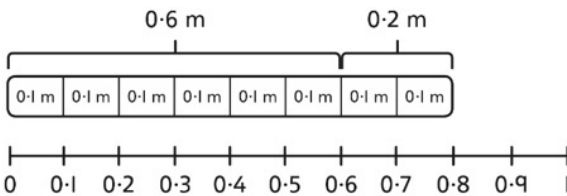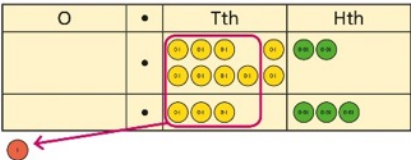
Understanding of decimals with up to 3 decimal places is built through place value and as fractions, and children calculate with decimals in the context of measure as well as in pure arithmetic.

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

	Year 5	

	Year 5 - Addition	
	Concrete	**Pictorial**	**Abstract**

	Concrete	**Pictorial**	**Abstract**
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.* _(place value grid: TTh, Th, H, T, O with counters)_	Represent additions, using place value equipment on a place value grid alongside written methods. _(place value grid: TTh, Th, H, T, O with counters)_ *I need to exchange 10 tens for a 100.* TTh Th H T O 2 0 1 5 3 + 1 9 1 7 5 3 9 3 2 8	Use column addition, including exchanges. TTh Th H T O 1 9 1 7 5 + 1 8 4 1 7 3 7 5 9 2
Representing additions		Bar models represent addition of two or more numbers in the context of problem solving. _(bar model: £19,579 | £28,370 | £16,725, total ?)_ Jen £2,600 Holly £2,600 £1,450 £4,050 Th H T O 2 6 0 0 + 1 4 5 0 4 0 5 0 Th H T O 2 6 0 0 + 4 0 5 0 6 6 5 0	Use approximation to check whether answers are reasonable. TTh Th H T O 2 3 4 0 5 + 7 8 9 2 2 0 2 9 7 TTh Th H T O 2 3 4 0 5 + 7 8 9 2 3 1 2 9 7 *I will use 23,000 + 8,000 to check.*
Adding tenths	Link measure with addition of decimals.	Use a bar model with a number line to add	Understand the link with adding fractions.

tenths.

Two lengths of fencing are 0·6 m and 0·2 m.
How long are they when added together?

0·6 m   0·2 m

0·6 m   0·2 m

$$\frac{6}{10} + \frac{2}{10} = \frac{8}{10}$$

6 tenths + 2 tenths = 8 tenths
0·6 + 0·2 = 0·8

0·6 + 0·2 = 0·8
6 tenths + 2 tenths = 8 tenths

| **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.

Include examples where the numbers of decimal places are different.

 | Add using a column method, ensuring that children understand the link with place value.

Include exchange where required, alongside an understanding of place value.

Include additions where the numbers of decimal places are different.

3.4 + 0.65 = ?

 |

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. *15,735 − 2,582 = 13,153* Now subtract the I0s. Exchange I hundred for I0 tens. Subtract the I00s, I,000s and I0,000s. 	Use column subtraction methods with exchange where required. *62,097 − 18,534 = 43,563*
Checking strategies and representing subtractions		Bar models represent subtractions in problem contexts, including 'find the difference'. 	Children can explain the mistake made when the columns have not been ordered correctly. Use approximation to check calculations. *I calculated 18,000 + 4,000 mentally to check my subtraction.*
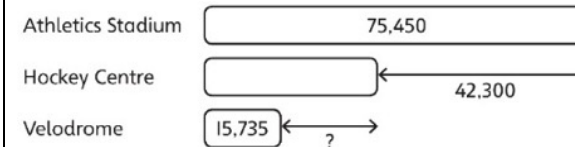
Choosing efficient methods			To subtract two large numbers that are close, children find the difference by counting on. *2,002 − 1,995 = ?* Use addition to check subtractions. *I calculated 7,546 − 2,355 = 5,191.* *I will check using the inverse.*
Subtracting decimals	Explore complements to a whole number by working in the context of length. I m − ☐ m = ☐ m *1 − 0·49 = ?*	Use a place value grid to represent the stages of column subtraction, including exchanges where required. *5·74 − 2·25 = ?* 	Use column subtraction, with an understanding of place value, including subtracting numbers with different numbers of decimal places. *3·921 − 3·75 = ?*
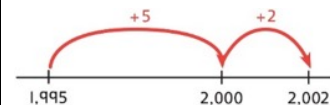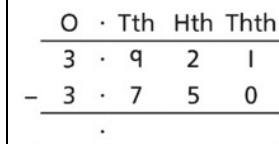
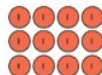| Year 5 - Multiplication			
Understanding factors	Use cubes or counters to explore the meaning of 'square numbers'. *25 is a square number because it is made from 5 rows of 5.* Use cubes to explore cube numbers. *8 is a cube number.*	Use images to explore examples and non-examples of square numbers. *8 × 8 = 64* $8^2 = 64$ *12 is not a square number, because you cannot multiply a whole number by itself to make 12.*	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 by 10, 100 and 1,000	Use place value equipment to multiply by 10, 100 and 1,000 by unitising. 	Understand the effect of repeated multiplication by 10. 	Understand how exchange relates to the digits when multiplying by 10, 100 and 1,000. *17 × 10 = 170* *17 × 100 = 17 × 10 × 10 = 1,700* *17 × 1,000 = 17 × 10 × 10 × 10 = 17,000*
Multiplying by	Use place value equipment to explore	Use place value equipment to represent	Use known facts and unitising to multiply.
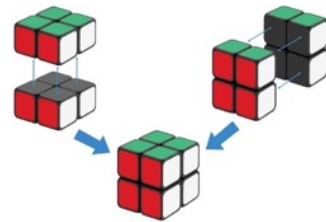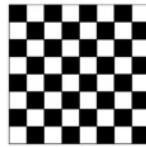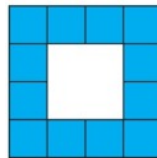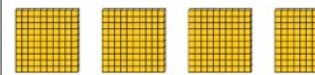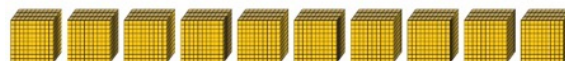
multiples of 10, 100 and 1,000	multiplying by unitising. *5 groups of 3 ones is 15 ones.* *5 groups of 3 tens is 15 tens.* *So, I know that 5 groups of 3 thousands would be 15 thousands.*	how to multiply by multiples of 10, 100 and 1,000. *4 × 3 = 12* *6 × 4 = 24* *4 × 300 = 1,200* *6 × 400 = 2,400*	*5 × 4 = 20* *5 × 40 = 200* *5 × 400 = 2,000* *5 × 4,000 − 20,000* *5,000 × 4 = 20,000*
Multiplying up to 4-digit numbers by a single digit	Explore how to use partitioning to multiply efficiently. *8 × 17 = ?* $8 \times 10 = 80$ $8 \times 7 = 56$ $80 + 56 = 136$ *So, 8 × 17 = 136*	Represent multiplications using place value equipment and add the 1s, then 10s, then 100s, then 1,000s.	Use an area model and then add the parts. Use a column multiplication, including any required exchanges.
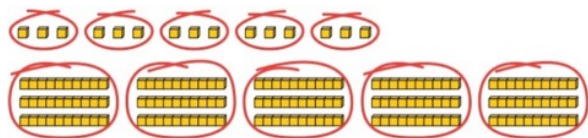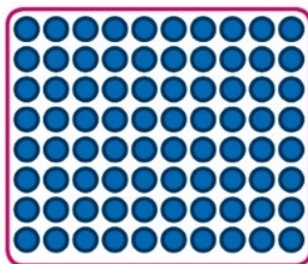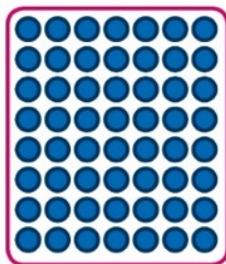
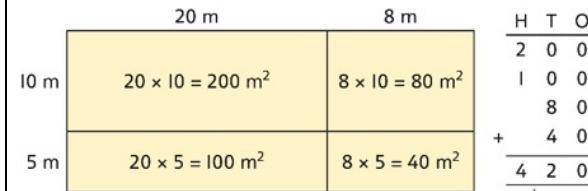| **Multiplying 2-digit numbers by 2-digit numbers** | Partition one number into 10s and 1s, then add the parts.

23 × 15 = ?

10 × 15 = 150   10 × 15 = 150
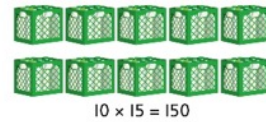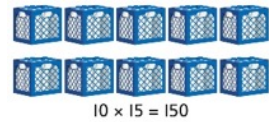
3 × 15 = 45

There are 345 bottles of milk in total.

H T O
1 5 0
1 5 0
+   4 5
3 4 5

23 × 15 = 345 | Use an area model and add the parts.

28 × 15 = ?

| | 20 m | 8 m |
10 m	20 × 10 = 200 m²	8 × 10 = 80 m²

5 m	20 × 5 = 100 m²	8 × 5 = 40 m² |
		
		H T O
		2 0 0
		1 0 0
		8 0
		+ 4 0
		4 2 0
		
		28 × 15 = 420
			Use column multiplication, ensuring understanding of place value at each stage.
			
			   3 4
			× 2 7
			2 3 ₂8 34 × 7
			
			   3 4
			× 2 7
			2 3 ₂8 34 × 7
			6 8 0 34 × 20
			
			   3 4
			× 2 7
			2 3 ₂8 34 × 7
			6 8 0 34 × 20
			9 1 8 34 × 27

Multiplying up		Use the area model then add the parts.	Use column multiplication, ensuring

| **to 4-digits by 2-digits** | | 143 × 12 = 1,716 | understanding of place value at each stage.   Progress to include examples that require multiple exchanges as understanding, confidence and fluency build. *1,274 × 32 = ?* *First multiply 1,274 by 2.*   *Then multiply 1,274 by 30.*   *Finally, find the total.*   *1,274 × 32 = 40,768* |

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. *0·14 × 10 = 1·4*	Understand how this exchange is represented on a place value chart. $2·5 × 10 = 25$ $2·5 × 100 = 250$ $2·5 × 1,000 = 2,500$
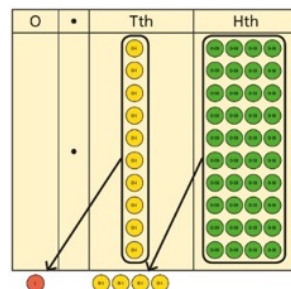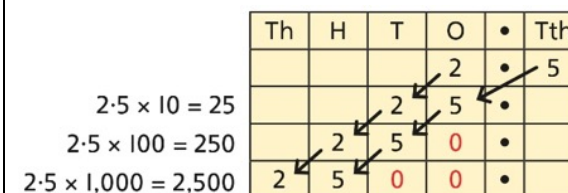
Year 5 - Division		

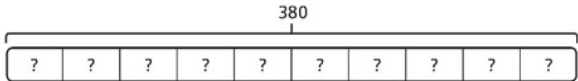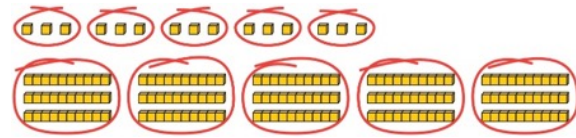| **Understanding factors and prime numbers**	Use equipment to explore the factors of a given number. *24 ÷ 3 = 8* *24 ÷ 8 = 3* *8 and 3 are factors of 24 because they divide 24 exactly.* 24 ÷ 5 = 4 remainder 4. *5 is not a factor of 24 because there is a remainder.*	Understand that prime numbers are numbers with exactly two factors. *13 ÷ 1 = 13* *13 ÷ 2 = 6 r 1* *13 ÷ 4 = 4 r 1* *1 and 13 are the only factors of 13.* *13 is a prime number.*	Understand how to recognise prime and composite numbers. *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.*
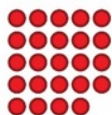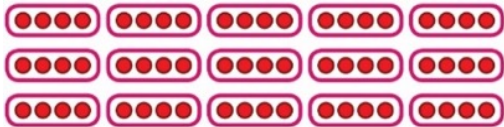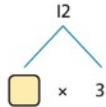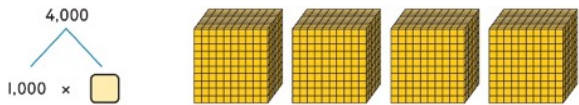
Understanding inverse operations and the link with multiplication, grouping and sharing	Use equipment to group and share and to explore the calculations that are present. *I have 28 counters.* *I made 7 groups of 4. There are 28 in total.* *I have 28 in total. I shared them equally into 7 groups. There are 4 in each group.* *I have 28 in total. I made groups of 4. There are 7 equal groups.*	Represent multiplicative relationships and explore the families of division facts. *60 ÷ 4 = 15* *60 ÷ 15 = 4*	Represent the different multiplicative relationships to solve problems requiring inverse operations. Understand missing number problems for division calculations and know how to solve them using inverse operations. *22 ÷ ? = 2* *22 ÷ 2 = ?* *? ÷ 2 = 22* *? ÷ 22 = 2*
Dividing whole numbers by 10, 100 and 1,000	Use place value equipment to support unitising for division. *4,000 ÷ 1,000* *4,000 is 4 thousands.* *4 × 1,000= 4,000* *So, 4,000 ÷ 1,000 = 4*	Use a bar model to support dividing by unitising. *380 ÷ 10 = 38* *380 is 38 tens.* *38 × 10 = 380* *10 × 38 = 380* *So, 380 ÷ 10 = 38*	Understand how and why the digits change on a place value grid when dividing by 10, 100 or 1,000. *3,200 ÷ 100 = ?* *3,200 is 3 thousands and 2 hundreds.* *200 ÷ 100 = 2* *3,000 ÷ 100 = 30* *3,200 ÷ 100 = 32* *So, the digits will move two places to the right.*

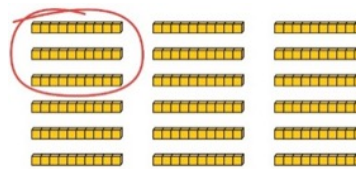| **Dividing by multiples of 10, 100 and 1,000**	Use place value equipment to represent known facts and unitising.	Represent related facts with place value equipment when dividing by unitising.	Reason from known facts, based on understanding of unitising. Use knowledge of the inverse relationship to check.
	  15 ones put into groups of 3 ones. There are 5 groups. *15 ÷ 3 = 5* *15 tens put into groups of 3 tens. There are 5 groups.* *150 ÷ 30 = 5*	 *180 is 18 tens.* *18 tens divided into groups of 3 tens. There are 6 groups.* *180 ÷ 30 = 6* *12 ones divided into groups of 4. There are 3 groups.* *12 hundreds divided into groups of 4 hundreds. There are 3 groups.* *1200 ÷ 400 = 3*	*3,000 ÷ 5 = 600* *3,000 ÷ 50 = 60* *3,000 ÷ 500 = 6* *5 × 600 = 3,000* *50 × 60 = 3,000* *500 × 6 = 3,000*
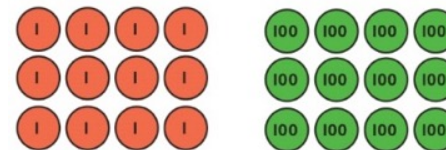
| **Dividing up to four digits by a single digit using short division** | Explore grouping using place value equipment.

268 ÷ 2 = ?

There is 1 group of 2 hundreds.
There are 3 groups of 2 tens.
There are 4 groups of 2 ones.

264 ÷ 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.
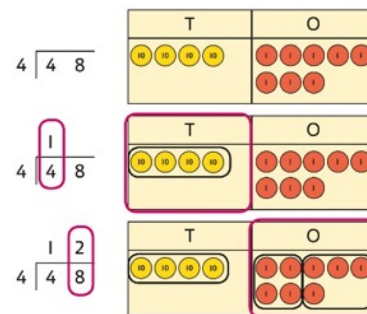
Lay out the problem as a short division.

There is 1 group of 4 in 4 tens.
There are 2 groups of 4 in 8 ones.

Work with divisions that require exchange.

First, lay out the problem.

How many groups of 4 go into 9 tens?
2 groups of 4 tens with 1 ten left over.

Exchange the 1 ten left over for 10 ones.
We now have 12 ones.
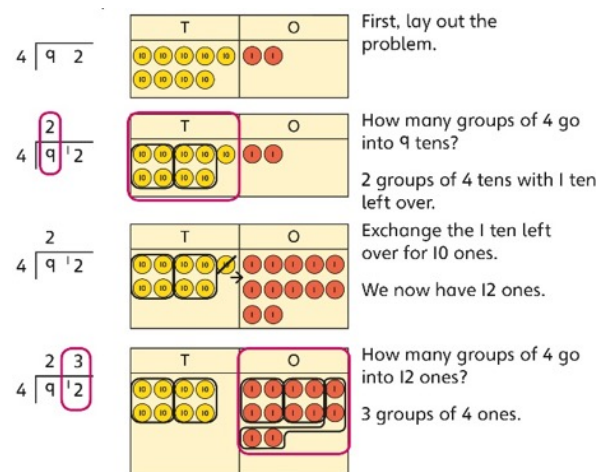
How many groups of 4 go into 12 ones?
3 groups of 4 ones. | Use short division for up to 4-digit numbers divided by a single digit.

3,892 ÷ 7 = 556

Use multiplication to check.
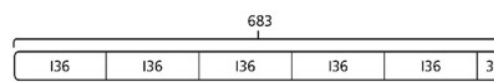
556 × 7 = ?

6 × 7 = 42
50 × 7 = 350
500 × 7 = 3500

3,500 + 350 + 42 = 3,892 |

Understanding remainders	Understand remainders using concrete versions of a problem. *80 cakes divided into trays of 6.* *80 cakes in total. They make 13 groups of 6, with 2 remaining.*	Use short division and understand remainders as the last remaining 1s. 	In problem solving contexts, represent divisions including remainders with a bar model. *683 = 136 × 5 + 3* *683 ÷ 5 = 136 r 3*
Dividing decimals by 10, 100 and 1,000	Understand division by 10 using exchange. *2 ones are 20 tenths.* *20 tenths divided by 10 is 2 tenths.*	Represent division using exchange on a place value grid. *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 divided by 10 is 5 hundredths.* *1·5 divided by 10 is 1 tenth and 5 hundredths.* *1·5 ÷ 10 = 0.15*	Understand the movement of digits on a place value grid. *0·85 ÷ 10 = 0·085* *8·5 ÷ 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. $1 \div 3 = \frac{1}{3}$	Use the link between division and fractions to calculate divisions. $5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$ $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$

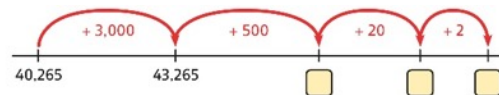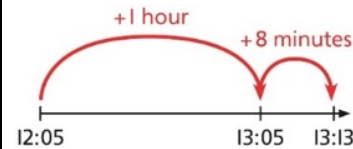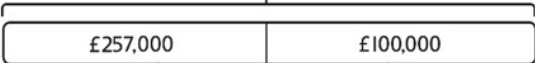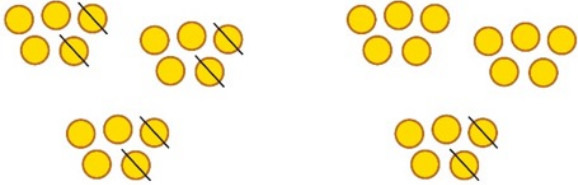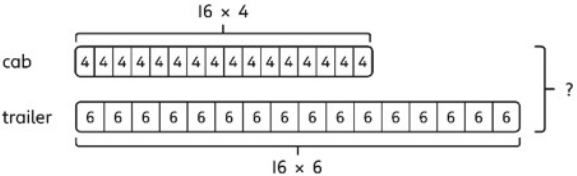|	Year 6		
	Year 6 - Addition		
	Concrete	**Pictorial**	**Abstract**
Comparing and selecting efficient methods	Represent 7-digit numbers on a place value grid, and use this to support thinking and mental methods. 	M	HTh	TTh	Th	H	T	O
••	••••	•	•	•••		• | 	Discuss similarities and differences between methods, and choose efficient methods based on the specific calculation. Compare written and mental methods alongside place value representations. +3,000 +500 +20 +2 40,265 43,265 | TTh	Th	H	T	O	TTh Th H T O 4 0 2 6 5 + 3 5 2 2 Use bar model and number line representations to model addition in problem-solving and measure contexts. +1 hour +8 minutes 12:05 13:05 13:13	Use column addition where mental methods are not efficient. Recognise common errors with column addition. *32,145 + 4,302 = ?* TTh Th H T O TTh Th H T O 3 2 1 4 5 3 2 1 4 5 + 4 3 0 2 + 4 3 0 2 3 6 4 4 7 7 5 1 6 5 *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. H T O · Tth Hth 1 4 0 · 0 9 + 4 9 · 8 9 1 8 9 · 9 8 1

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. *2,411,301 + 500,000 = ?* *This would be 5 more counters in the HTh place.* *So, the total is 2,911,301.* *2,411,301 + 500,000 = 2,911,301*	Use a bar model to support thinking in addition problems. *257,000 + 99,000 = ?* *I added 100 thousands then subtracted 1 thousand.* *257 thousands + 100 thousands = 357 thousands* *257,000 + 100,000 = 357,000* *357,000 − 1,000 = 356,000* *So, 257,000 + 99,000 = 356,000*	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*
Understanding order of operations in calculations	Use equipment to model different interpretations of a calculation with more than one operation. Explore different results. *3 × 5 − 2 = ?*	Model calculations using a bar model to demonstrate the correct order of operations in multi-step calculations.	Understand the correct order of operations in calculations without brackets. Understand how brackets affect the order of operations in a calculation. *4 + 6 × 16* *4 + 96 = 100* *(4 + 6) × 16* *10 × 16 = 160*

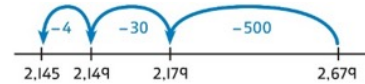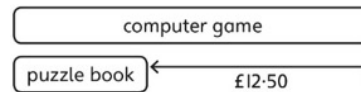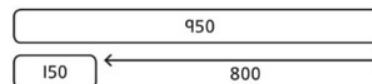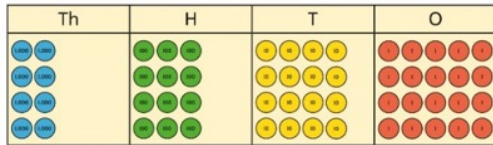| Year 6 - Subtraction			
Comparing and selecting efficient methods	Use counters on a place value grid to represent subtractions of larger numbers. 	Compare subtraction methods alongside place value representations. Use a bar model to represent calculations, including 'find the difference' with two bars as comparison. 	Compare and select methods. Use column subtraction when mental methods are not efficient. Use two different methods for one calculation as a checking strategy. Use column subtraction for decimal problems, including in the context of measure.
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* *So, the difference is 800 thousands.* *950,000 − 150,000 = 800,000*	Subtract efficiently from powers of 10. *10,000 − 500 = ?*
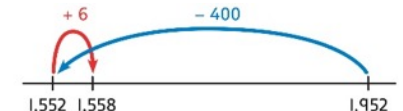
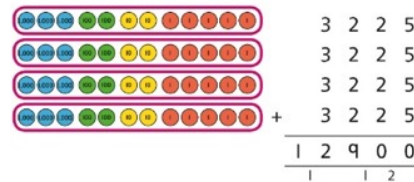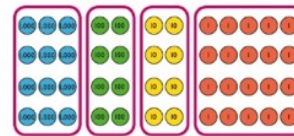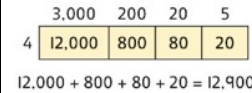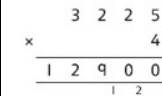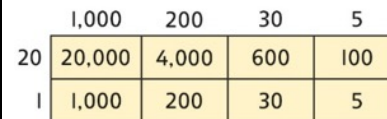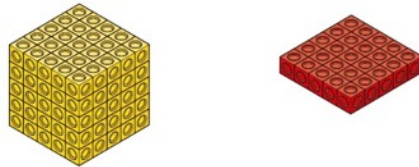| Year 6 - Multiplication			
Multiplying up to a 4-digit number by a single digit number	Use equipment to explore multiplications. *4 groups of 2,345* *This is a multiplication:* *4 × 2,345* *2,345 × 4*	Use place value equipment to compare methods. **Method 1** **Method 2** 4 × 3,000 4 × 200 4 × 20 4 × 5 12,000 + 800 + 80 + 20 = 12,900	Understand area model and short multiplication. Compare and select appropriate methods for specific multiplications. **Method 3** 12,000 + 800 + 80 + 20 = 12,900 **Method 4**
Multiplying up to a 4-digit number by a 2-digit number		Use an area model alongside written multiplication. **Method 1** 	Use compact column multiplication with understanding of place value at all stages.

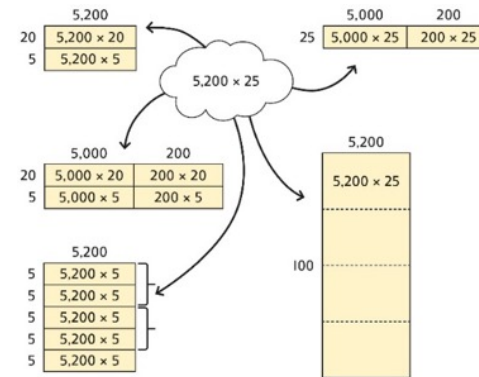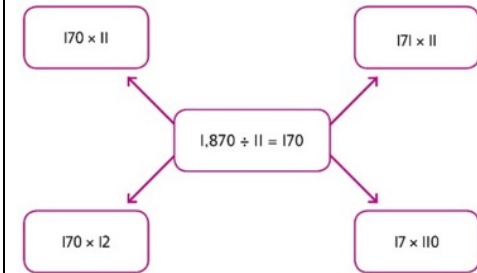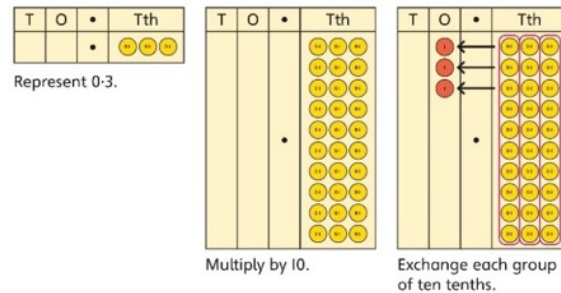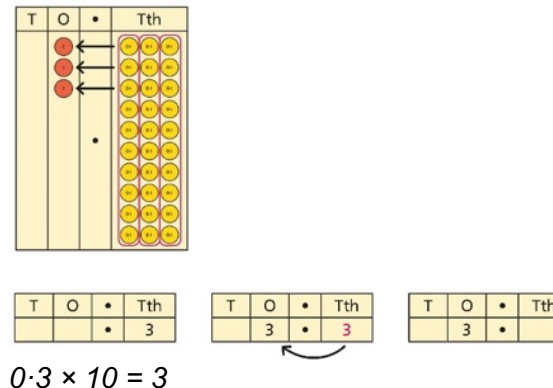|			
Using knowledge of factors and partitions to compare methods for multiplications	Use equipment to understand square numbers and cube numbers. $5 \times 5 = 5^2 = 25$ $5 \times 5 \times 5 = 5^3 = 25 \times 5 = 125$	Compare methods visually using an area model. Understand that multiple approaches will produce the same answer if completed accurately. Represent and compare methods using a bar model.	Use a known fact to generate families of related facts. Use factors to calculate efficiently. $\ 15\ \times\ 16$ $= 3 \times 5 \times 2 \times 8$ $= 3 \times 8 \times 2 \times 5$ $=\ 24\ \times\ 10$ $= 240$
Multiplying by 10, 100 and 1,000	Use place value equipment to explore exchange in decimal multiplication. $0 \cdot 3 \times 10 = ?$ $0 \cdot 3$ is 3 tenths. 10 × 3 tenths are 30 tenths. 30 tenths are equivalent to 3 ones.	Understand how the exchange affects decimal numbers on a place value grid. $0 \cdot 3 \times 10 = 3$	Use knowledge of multiplying by 10, 100 and 1,000 to multiply by multiples of 10, 100 and 1,000. $8 \times 100 = 800$ $8 \times 300 = 800 \times 3$ $= 2{,}400$ $2 \cdot 5 \times 10 = 25$ $2 \cdot 5 \times 20 = 2 \cdot 5 \times 10 \times 2$ $=\ 50$

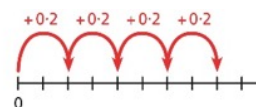| **Multiplying decimals** | Explore decimal multiplications using place value equipment and in the context of measures.
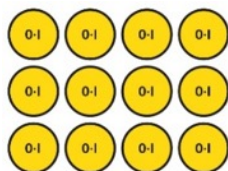
3 groups of 4 tenths is 12 tenths.
4 groups of 3 tenths is 12 tenths.

1·3 cm 1·3 cm 1·3 cm 1·3 cm
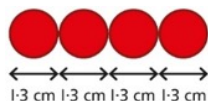
4 × 1 cm = 4 cm
4 × 0·3 cm = 1.2 cm
4 × 1·3 = 4 + 1·2 = 5·2 cm | Represent calculations on a place value grid.

$3 \times 3 = 9$

$3 \times 0·3 = 0·9$

Understand the link between multiplying decimals and repeated addition.

 | Use known facts to multiply decimals.

4 × 3 = 12
4 × 0·3 = 1·2
4 × 0·03 = 0·12

20 × 5 = 100
20 × 0·5 = 10
20 × 0·05 = 1

Find families of facts from a known multiplication.

I know that 18 × 4 = 72.

This can help me work out:

1·8 × 4 = ?
18 × 0·4 = ?
180 × 0·4 = ?
18 × 0·04 = ?

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

 |

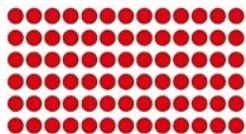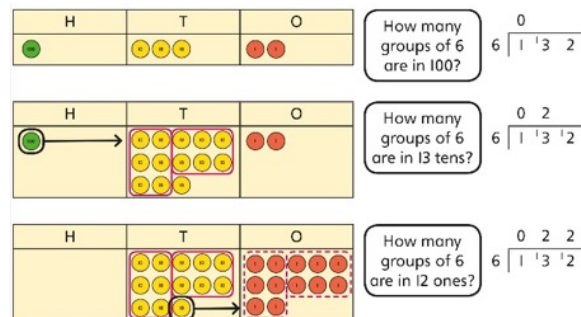|			
Year 6 - Division			
Understanding factors	Use equipment to explore different factors of a number. $24 \div 4 = 6$ $30 \div 4 = 7$ remainder 2 *4 is a factor of 24 but is not a factor of 30.*	Recognise prime numbers as numbers having exactly two factors. Understand the link with division and remainders. $17 \div 2 = 8$ r 1 $17 \div 3 = 5$ r 2 $17 \div 4 = 4$ r 1 $17 \div 5 = 3$ r 2	Recognise and know primes up to 100. Understand that 2 is the only even prime, and that 1 is not a prime number.
Dividing by a single digit	Use equipment to make groups from a total. *There are 78 in total.* *There are 6 groups of 13.* *There are 13 groups of 6.*		Use short division to divide by a single digit. Use an area model to link multiplication and division. $6 \times ? = 132$ $132 = 120 + 12$ $132 \div 6 = 20 + 2 = 22$
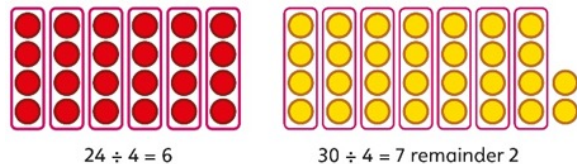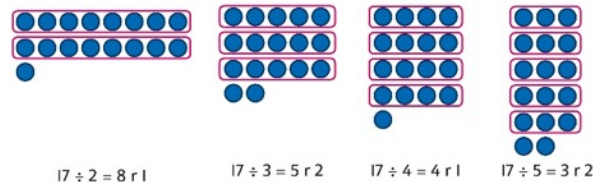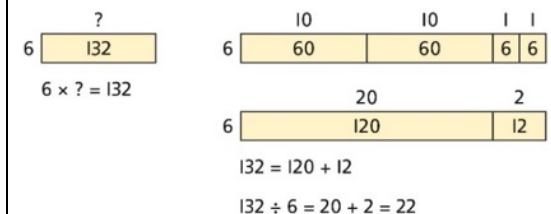
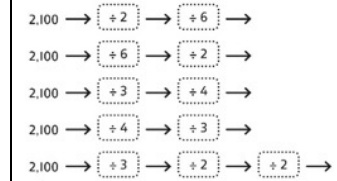| **Dividing by a 2-digit number using factors**	Understand that division by factors can be used when dividing by a number that is not prime.	Use factors and repeated division. *1,260 ÷ 14 = ?* *1,260 ÷ 2 = 630* *630 ÷ 7 = 90* *1,260 ÷ 14 = 90*	Use factors and repeated division where appropriate. *2,100 ÷ 12 = ?* 2,100 → ÷ 2 → ÷ 6 → 2,100 → ÷ 6 → ÷ 2 → 2,100 → ÷ 3 → ÷ 4 → 2,100 → ÷ 4 → ÷ 3 → 2,100 → ÷ 3 → ÷ 2 → ÷ 2 →

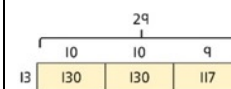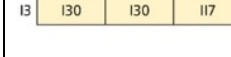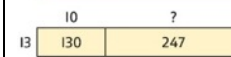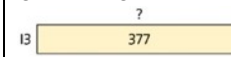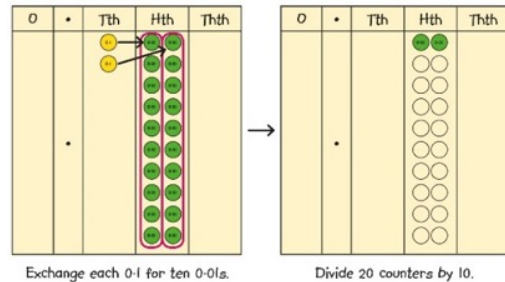| **Dividing by a 2-digit number using long division** | Use equipment to build numbers from groups.

182 divided into groups of 13.
There are 14 groups. | Use an area model alongside written division to model the process.

377 ÷ 13 = ?

377 ÷ 13 = 29 | Use long division where factors are not useful (for example, when dividing by a 2-digit prime number).
Write the required multiples to support the division process.

377 ÷ 13 = ?
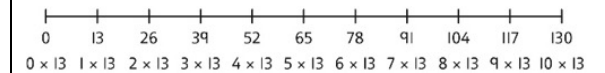
377 ÷ 13 = 29

A slightly different layout may be used, with the division completed above rather than at the side.
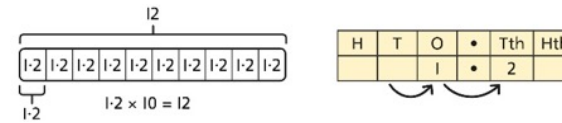
Divisions with a remainder explored in problem-solving contexts. |

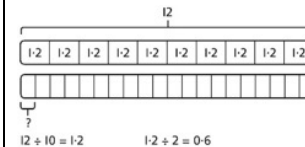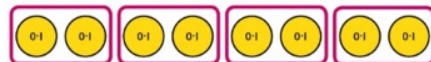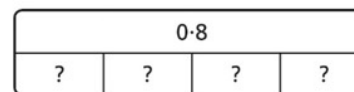|			
Dividing by 10, 100 and 1,000	Use place value equipment to explore division as exchange. Exchange each 0·1 for ten 0·01s. Divide 20 counters by 10. *0·2 is 2 tenths.* *2 tenths is equivalent to 20 hundredths.* *20 hundredths divided by 10 is 2 hundredths.*	Represent division to show the relationship with multiplication. Understand the effect of dividing by 10, 100 and 1,000 on the digits on a place value grid. Understand how to divide using division by 10, 100 and 1,000. *12 ÷ 20 = ?* 	Use knowledge of factors to divide by multiples of 10, 100 and 1,000. $40 ÷ 50 = \square$ $40 \rightarrow ÷ 10 \rightarrow ÷ 5 \rightarrow ?$ $40 \rightarrow ÷ 5 \rightarrow ÷ 10 \rightarrow ?$ *40 ÷ 5 = 8* *8 ÷ 10 = 0·8* *So, 40 ÷ 50 = 0·8*
Dividing decimals	Use place value equipment to explore division of decimals. *8 tenths divided into 4 groups. 2 tenths in each group.*	Use a bar model to represent divisions. $4 × 2 = 8$ $8 ÷ 4 = 2$ So, $4 × 0·2 = 0·8$ $0·8 ÷ 4 = 0·2$	Use short division to divide decimals with up to 2 decimal places.