



Calculation Policy UKS2 (Years 5 and 6)



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.

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					
	Concrete	Pictorial	Abstract			
Year 5 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. Inneed to exchange 10 tens for a 100.	Use column addition, including exchanges. Th Th H T O			
Representing additions		Bar models represent addition of two or more numbers in the context of problem solving.	Use approximation to check whether answers are reasonable. TTh Th H T O			



Adding tenths	Link measure with addition of decimals.	Use a bar model with a number line to add tenths.	Understand the link with adding fractions.
	Two lengths of fencing are 0⋅6 m and	tentris.	6 2 8
	0.2 m.	0·6 m 0·2 m	$\frac{6}{10} + \frac{2}{10} = \frac{8}{10}$
	How long are they when added together?		
	0·6 m 0·2 m	0+m 0+m 0+m 0+m 0+m 0+m 0+m 0+m	6 tenths + 2 tenths = 8 tenths 0.6 + 0.2 = 0.8
	***************************************		00102 = 00
		0 0-1 0-2 0-3 0-4 0-5 0-6 0-7 0-8 0-9 1	
		0.6 + 0.2 = 0.8	
		6 tenths + 2 tenths = 8 tenths	
Adding	Use place value equipment to represent	Use place value equipment on a place	Add using a column method, ensuring that
decimals using column	additions.	value grid to represent additions.	children understand the link with place value.
addition	Show 0·23 + 0·45 using place value	Represent exchange where necessary.	value.
	counters.	W 250 WILE	0 · Tth Hth 0 · 2 3
		0 • Tth Hth 0 • Tth Hth 0 • q 2	+ 0 · 4 5
		+ 0 · 3 · 3	0 - 6 8
		1 + 2 - 5	Include exchange where required, alongside an understanding of place value.
		• 1	
		Include examples where the numbers of	0 - Tth Hth 0 - 9 2
		decimal places are different.	+ 0 · 3 3
		O • Tth Hth O · Tth Hth	1 · 2 · 5
		5 · 0 · 0	Include additions where the numbers of decimal places are different.
		6 2 5	desimal places are different.
			3.4 + 0.65 = ?
			O · Tth Hth
			3 · 4 · 0 · 6 · 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. 15,735 - 2,582 = 13,153 The property of the including exchange is a subtract the including	Use column subtraction methods with exchange where required. TTh Th H T O T O T O T O T O T O T O T O T O T
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. The H T D T T T T T T T T T T T T T T T T T
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. $ \boxed{0.49 \text{ m}} $ $ \boxed{1 \text{ m} - \boxed{\text{m}} = \boxed{\text{m}} } $ $ 1 - 0.49 = ? $	Use a place value grid to represent the stages of column subtraction, including exchanges where required. 5.74 - 2.25 = ? O	Use column subtraction, with an understanding of place value, including subtracting numbers with different numbers of decimal places. 3.921 - 3.75 = ? O The Hth Thth 3 Q Q I - 3 7 5 0
Year 5 Multiplication			

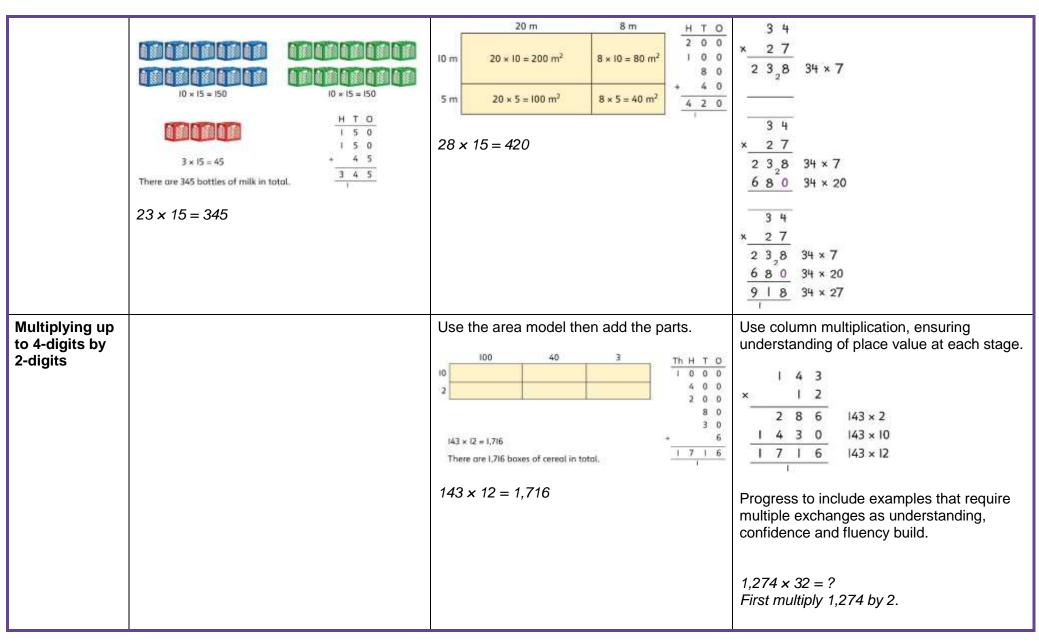


Understanding factors	Use cubes or counters to explore the meaning of 'square numbers'.	Use images to explore examples and non- examples of square numbers.	Understand the pattern of square numbers in the multiplication tables.
	25 is a square number because it is made from 5 rows of 5.	3888	Use a multiplication grid to circle each square number. Can children spot a pattern?
	Use cubes to explore cube numbers.	8 x 8 = 64	patterns
		$8^2 = 64$	
	8 is a cube number.	12 is not a square number, because you cannot multiply a whole number by itself to make 12.	
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.
	4 × 1 = 4 ones = 4	0.000000000000000000000000000000000000	H T O
	4 x 100 = 4 hundreds = 400		1 7
			$17 \times 10 = 170$ $17 \times 100 = 17 \times 10 \times 10 = 1,700$ $17 \times 1,000 = 17 \times 10 \times 10 \times 10 = 17,000$
Multiplying by multiples of 10, 100 and 1,000	Use place value equipment to explore multiplying by unitising.	Use place value equipment to represent how to multiply by multiples of 10, 100 and 1,000.	Use known facts and unitising to multiply. $5 \times 4 = 20$ $5 \times 40 = 200$



	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.	$4 \times 3 = 12$ $4 \times 300 = 1,200$ $6 \times 4 = 24$ $6 \times 400 = 2,400$	$5 \times 400 = 2,000$ $5 \times 4,000 - 20,000$ $5,000 \times 4 = 20,000$
Multiplying up to 4-digit numbers by a single digit	Explore how to use partitioning to multiply efficiently. $8 \times 17 = ?$ $8 \times 10 = 80$ $8 \times 7 = 56$ $80 + 56 = 136$ So, $8 \times 17 = 136$	Represent multiplications using place value equipment and add the 1s, then 10s, then 100s, then 1,000s. H T O O O O O O O O O O O O O O O O O O	Use an area model and then add the parts. 100 60 3 5 100 \times 5 = 500 60 \times 5 = 300 3 \times 5 = 15 Use a column multiplication, including any required exchanges. 1 3 6 \times 6 \times 6 \times 8 1 6 \times 3
Multiplying 2- digit numbers by 2-digit numbers	Partition one number into 10s and 1s, then add the parts. 23 × 15 = ?	Use an area model and add the parts. $28 \times 15 = ?$	Use column multiplication, ensuring understanding of place value at each stage.







Multiplying	Use place value equipment to explore and	Represent multiplication by 10 as exchange	Then multiply 1,274 by 30. Then multiply 1,274 x 2 3 8,2 1,2 0 1,274 x 30 Finally, find the total. 1 2 7 4 x 3 2 2 5,4 8 1,274 x 2 3 8,2 1,2 0 1,274 x 30 4 0 7 6 8 1,274 x 32 1,274 x 32 = 40,768 Understand how this exchange is
decimals by 10, 100 and 1,000	understand the exchange of 10 tenths, 10 hundredths or 10 thousandths.	on a place value grid.	represented on a place value chart. The Heat Told Tth 2 2 5 5 2 5 \times 100 = 250 2 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Year 5 Division			

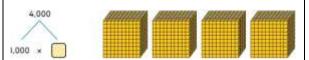


Understanding factors and prime numbers	Use equipment to explore the factors of a given number.	Understand that prime numbers are numbers with exactly two factors.	Understand how to recognise prime and composite numbers.
	24 ÷ 3 = 8 24 ÷ 8 = 3 8 and 3 are factors of 24 because they divide 24 exactly. 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 are 7 equal groups.	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. $12+3=12$ Understand missing number problems for division calculations and know how to solve them using inverse operations. $22 \div ? = 2$ $22 \div 2 = ?$ $22 \div 2 = 2$ $22 \div 2 = 2$
Dividing whole numbers by	Use place value equipment to support unitising for division.	Use a bar model to support dividing by unitising.	Understand how and why the digits change on a place value grid when dividing by 10, 100 or 1,000.



10, 100 and 1,000

4,000 ÷ 1,000

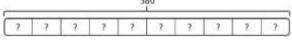


4,000 is 4 thousands.

 $4 \times 1,000 = 4,000$

So, $4,000 \div 1,000 = 4$

JUU - 10 - JU	380	÷	10 =	= 38
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380 is 38 tens. $38 \times 10 = 380$

 $10 \times 38 = 380$

So, $380 \div 10 = 38$

Th	н	T	0
3	2	0	0

 $3.200 \div 100 = ?$

3,200 is 3 thousands and 2 hundreds.

 $200 \div 100 = 2$

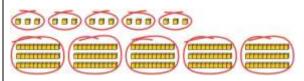
 $3,000 \div 100 = 30$

 $3,200 \div 100 = 32$

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.



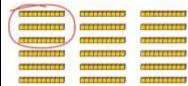
15 ones put into groups of 3 ones. There are 5 groups.

 $15 \div 3 = 5$

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.

 $180 \div 30 = 6$



Reason from known facts, based on understanding of unitising. Use knowledge of the inverse relationship to check.

 $3.000 \div 5 = 600$

 $3,000 \div 50 = 60$

 $3,000 \div 500 = 6$

 $5 \times 600 = 3,000$

 $50 \times 60 = 3,000$

 $500 \times 6 = 3.000$



		 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 	
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. To o o o o o o o o o o o o o o o o o o	Use short division for up to 4-digit numbers divided by a single digit. $ \begin{array}{cccccccccccccccccccccccccccccccccc$



		First, lay out the problem. 4 9 2	
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. Lay out the problem as short division. Lay out the problem as short division. How many groups of 6 go into 8 tens? There are 2 tens remaining. There are 3 groups of 6 go into 20 ones? There are 3 groups of 6 ones. There are 2 ones remaining.	In problem solving contexts, represent divisions including remainders with a bar model. 683 136
Dividing decimals by	Understand division by 10 using exchange.	Represent division using exchange on a place value grid.	Understand the movement of digits on a place value grid.



10, 100 and 1,000	2 ones are 20 tenths. 20 tenths divided by 10 is 2 tenths.	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	$0 \cdot 10 + 10 = 0.085$ $0 \cdot 8 \cdot 5 \cdot 10 = 0.085$ $0 \cdot 10 \cdot $
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. $5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$ $11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$
		Year 6	
	Concrete	Pictorial	Abstract



Year 6 Addition			
Comparing and selecting efficient methods	Represent 7-digit numbers on a place value grid, and use this to support thinking and mental methods.	Discuss similarities and differences 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.	Use column addition where mental methods are not efficient. Recognise common errors with column addition. 32,145 + 4,302 = ? Th Th H T O To Th H T O To The H T O The H The To The H T O The H The To The H T O The H The To The The
Selecting mental methods for larger numbers	Represent 7-digit numbers on a place value grid, and use this to support thinking and mental methods.	Use a bar model to support thinking in addition problems. 257,000 + 99,000 = ?	Use place value and unitising to support mental calculations with larger numbers. 195,000 + 6,000 = ?



where appropriate	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	f 257,000 f 100,000 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	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. $3 \times 5 - 2 = ?$	Model calculations using a bar model to demonstrate the correct order of operations in multi-step calculations. $ \begin{array}{cccccccccccccccccccccccccccccccccc$	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			

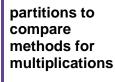


Comparing and selecting efficient methods	Use counters on a place value grid to represent subtractions of larger numbers.	Compare subtraction methods alongside place value representations. The H T O 2 6 7 9 - 5 3 4 2 1 4 5 Use a bar model to represent calculations, including 'find the difference' with two bars as comparison. Computer game puzzle book £12-50	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 H T O Tth Hth 3 O 9 6 O - 2 O 6 4 O 1 O 3 - 2 O
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 950,000 - 150,000 = 800,000 So, the difference is 800 thousands. 950,000 - 150,000 = 800,000	Subtract efficiently from powers of 10. $10,000 - 500 = ?$
Year 6 Multiplication		100,000 - 000,000	



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 x 2,345 2,345 x 4	Use place value equipment to compare methods. Method I Method I Method I Method I Method Z	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
Multiplying up to a 4-digit number by a 2-digit number		Use an area model alongside written multiplication. Method I 1,000 200 30 5 20 20,000 4,000 600 100 1 1,000 200 30 5 * 2 1 5 1×5 3 0 1×30 2 0 0 1×200 1 0 0 0 0 1×1,000 1 0 0 20×5 6 0 0 20×30 4 0 0 0 20×200 2 0 0 0 0 20×1,000 2 5 9 3 5 21×1,235	Use compact column multiplication with understanding of place value at all stages. 1 2 3 5
Using knowledge of factors and	Use equipment to understand square numbers and cube numbers.	Compare methods visually using an area model. Understand that multiple	Use a known fact to generate families of related facts.





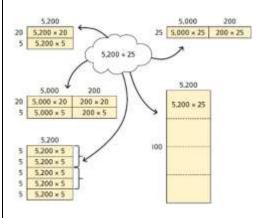




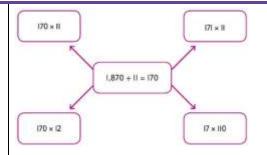
$$5 \times 5 = 5^2 = 25$$

 $5 \times 5 \times 5 = 5^3 = 25 \times 5 = 125$

approaches will produce the same answer if completed accurately.



Represent and compare methods using a bar model.



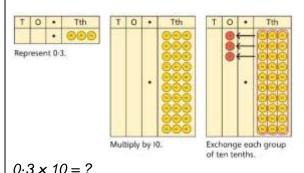
Use factors to calculate efficiently.

$$15 \times 16$$

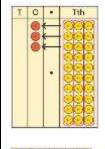
= $3 \times 5 \times 2 \times 8$
= $3 \times 8 \times 2 \times 5$
= 24×10
= 240

Multiplying by 10, 100 and 1,000

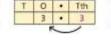
Use place value equipment to explore exchange in decimal multiplication.



0.3 is 3 tenths. 10 x 3 tenths are 30 tenths. 30 tenths are equivalent to 3 ones. Understand how the exchange affects decimal numbers on a place value grid.







T O . Tth

Use knowledge of multiplying by 10, 100 and 1,000 to multiply by multiples of 10, 100 and 1,000.

$$8 \times 100 = 800$$

 $8 \times 300 = 800 \times 3$
 $= 2,400$

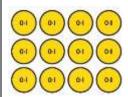
$$2.5 \times 10 = 25$$

 $2.5 \times 20 = 2.5 \times 10 \times 2$
= 50



Multiplying decimals

Explore decimal multiplications using place value equipment and in the context of measures.



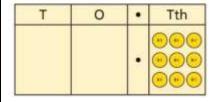
3 groups of 4 tenths is 12 tenths. 4 groups of 3 tenths is 12 tenths.



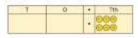
 $4 \times 1 \text{ cm} = 4 \text{ cm}$ $4 \times 0.3 \text{ cm} = 1.2 \text{ cm}$ $4 \times 1.3 = 4 + 1.2 = 5.2 \text{ cm}$ Represent calculations on a place value grid.

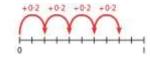
$$3 \times 3 = 9$$

$$3 \times 0.3 = 0.9$$



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				•		



Year 6 Division			
Understanding factors	Use equipment to explore different factors of a number.	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.
	$24 \div 4 = 6$ $30 \div 4 = 7$ remainder 2	17+2=8r1 17+3=5r2 17+4=4r1 17+5=3r2	I 2 3 4 5 6 7 8 9 10 II 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
Dividing by a			41 42 43 44 45 46 47 48 49 50
Dividing by a 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 ore in 100? H T O Groups of 6 ore in 13 tens? H T O How many groups of 6 ore in 13 tens? H T O How many groups of 6 ore in 12 ones? H T O How many groups of 6 ore in 12 ones?	Use short division to divide by a single digit. $ \begin{array}{c cccc} 0 & & & & & & \\ 6 & 1 & 3 & 2 & & & \\ \hline $



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 = ? 1,260 \div 2 = 630 630 \div 7 = 90 1,260 \div 14 = 90	Use factors and repeated division where appropriate. $2,100 \div 12 = ?$ $2,100 \rightarrow \underbrace{(+2)}_{2,100} \rightarrow \underbrace{(+6)}_{4} \rightarrow \underbrace{(+6)}_{2,100} \rightarrow \underbrace{(+6)}_{4} \rightarrow \underbrace{(+2)}_{2,100} \rightarrow \underbrace{(+3)}_{4} \rightarrow \underbrace{(+2)}_{4} \rightarrow \underbrace{(+2)}_{2,100} \rightarrow \underbrace{(+3)}_{4} \rightarrow \underbrace{(+2)}_{4} \rightarrow ($
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. $377 \div 13 = ?$ 13	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. $377 \div 13 = ?$ $13 $



			A slightly different layout may be used, with the division completed above rather than at the side. 3 21 7 9 8 - 6 3 0 1 6 8 21 7 9 8 - 6 3 0 1 6 8 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. 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. $12 \div 20 = ?$	Use knowledge of factors to divide by multiples of 10, 100 and 1,000. $40 \leftrightarrow 50 = \boxed{}$ $8 \div 10 = 0.8$ So, $40 \div 50 = 0.8$



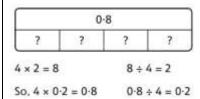
Dividing decimals

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.



Use short division to divide decimals with up to 2 decimal places.