

St Gabriel's Catholic Primary School



Power Maths White Rose Edition calculation policy, UPPER KS2



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.

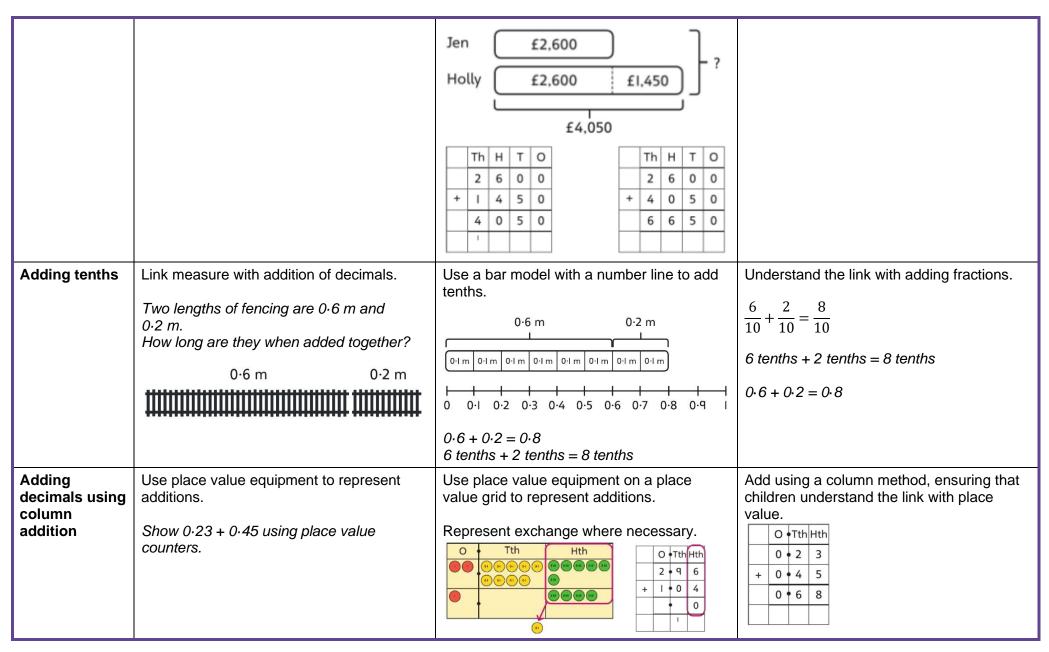
Understanding of decimals with up to 3 decimal places is built through place value and as fractions, and children calculate with decimals in the context of measure as well as in pure arithmetic.

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



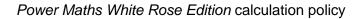
	Year 5				
	Concrete	Pictorial	Abstract		
Year 5 Addition					
Column addition with whole numbers	Use place value equipment to represent additions. TTh Th H T O O O O O O O O O O O O O O O O O O	Represent additions, using place value equipment on a place value grid alongside written methods. The the second	Use column addition, including exchanges. TTh 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 TTh Th H T O		







		Include examples where the numbers of decimal places are different. O Tth Hth 5 0 0 + 1 2 5 6 2 5	Include exchange where required, alongside an understanding of place value. O Tth Hth O 5 7 + 0 4 3 I 0 0 Include additions where the numbers of decimal places are different. O Tth Hth 2 3 I + 0 7 0
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	Use column subtraction methods with exchange where required. TTh Th H T O 5





Now subtract the IOs.
Exchange I hundred for I0 tens. TTh Th H T O O O O O O O O O O O O O O O O O O
Subtract the I00s, I,000s and I0,000s. TTh Th H T O
TTh Th H T O 1 5 7 3 5 - 2 5 8 2
TTh Th H T O 1 5 6 7 3 5 - 2 5 8 2 5 3
TTh Th H T O 1 5 6 7 3 5 - 2 5 8 2 1 3 1 5 3

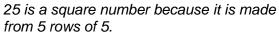


Checking strategies and representing subtractions	Bar models represent subtractions in problem contexts, including 'find the difference'. Athletics Stadium 75,450 Hockey Centre 42,300 Velodrome 15,735 ?	Children can explain the mistake made when the columns have not been ordered correctly. Use approximation to check calculations. Bella's working Correct method TTh Th H T O 1 7 8 7 7 + 4 0 1 2 5 7 9 9 7 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 = ? 1,995



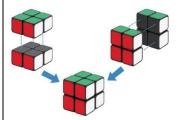
Subtracting decimals	Explore complements to a whole number by working in the context of length. $ \begin{array}{c c} \hline 0.49 \text{ m} \\ \hline 1 \text{ m} - \boxed{\text{m}} = \boxed{\text{m}} \\ 1 - 0.49 = ? \end{array} $	Use a place value grid to represent the stages of column subtraction, including exchanges where required. 5.74 - 2.25 = ? O Tth Hth
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. Use a multiplication grid to circle each square number. Can children spot a pattern?



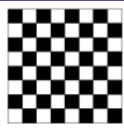




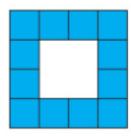
Use cubes to explore cube numbers.



8 is a cube number.



 $8 \times 8 = 64$ $8^2 = 64$



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

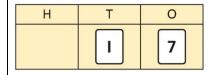
Use place value equipment to multiply by 10, 100 and 1,000 by unitising.

$4 \times I = 4$ ones = 4	6	8	
$4 \times 10 = 4 \text{ tens} = 40$			 CHARLES
4 × 100 = 4 hundreds = 400			

Understand the effect of repeated multiplication by 10.



 $7 \times 10 = 70$ $7 \times 100 = 7,000$ $7 \times 1,000 = 70,000$ Understand how exchange relates to the digits when multiplying by 10, 100 and 1,000.



 $17 \times 10 = 170$ $17 \times 100 = 17 \times 10 \times 10 = 1,700$ $17 \times 1,000 = 17 \times 10 \times 10 \times 10 = 17,000$



Multiplying by multiples of 10, 100 and 1,000

Use place value equipment to explore multiplying by unitising.



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.

Use place value equipment to represent how to multiply by multiples of 10, 100 and 1,000.



$$4 \times 3 = 12$$

 $4 \times 300 = 1,200$



$$6 \times 4 = 24$$

 $6 \times 400 = 2.400$

Use known facts and unitising to multiply.

$$5 \times 4 = 20$$

$$5 \times 40 = 200$$

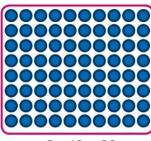
$$5 \times 400 = 2,000$$

$$5 \times 4,000 - 20,000$$

$$5,000 \times 4 = 20,000$$

Multiplying up to 4-digit numbers by a single digit Explore how to use partitioning to multiply efficiently.

 $8 \times 17 = ?$



$$8 \times 10 = 80$$

So,
$$8 \times 17 = 136$$

80 + 56 = 136

Represent multiplications using place value equipment and add the 1s, then 10s, then 100s, then 1,000s.

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

Use an area model and then add the parts.

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

Use a column multiplication, including any required exchanges.

	Н	Т	0
		1	7
×			8
			6
		5	

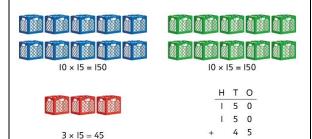
	Н	Т	0
		1	7
×			8
	Τ	3	6
		5	

 $8 \times 7 = 56$



Multiplying 2digit numbers by 2-digit numbers Partition one number into 10s and 1s, then add the parts.

 $23 \times 15 = ?$



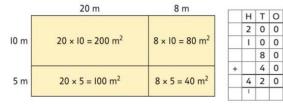
3 4 5

 $23 \times 15 = 345$

There are 345 bottles of milk in total.

Use an area model and add the parts.

$$28 \times 15 = ?$$



$$28 \times 15 = 420$$

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



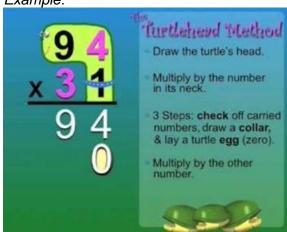
 34×7

 34×20

34 × 27

AMENDMENT: To assist children when confused during this complex operation, we use the 'turtle head' method to isolate the ones column before moving on to multiply the tens column.

Example:





Multiplying up
to 4-digits by
2-digits

Use the area model then add the parts.

	100	40	3
10	100 × 10 = 1,000	40 × 10 = 400	3 × 10 = 30
2	100 × 2 = 200	40 × 2 = 80	3 × 2 = 6

	Th	Н	Т	0
	1	0	0	0
		4	0	0
		2	0	0
			8	0
			3	0
+				6
	1	7	1	6
		1		

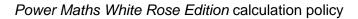
$$143 \times 12 = 1,716$$

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

	Th	Н	Т	0	
		Τ	4	3	
×			1	2	
		2	8	6	143 × 2
	1	4	3	0	143 × 10
	Τ	7	Τ	6	143 × 12
		ı			

Progress to include examples that require multiple exchanges as understanding, confidence and fluency build.

 $1.274 \times 32 = ?$





	First multiply I,274 by 2. TTh Th H T O
	3 8 ½ 2 0 4 0 7 6 8 1,274 × 32



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. i) 0·14 × 10 =	Understand how this exchange is represented on a place value chart. The Heat To Tth To Tth 2 5 5 2.5 \times 100 = 250 2.5 \times 1,000 = 2,500 2 5 0 0
Year 5 Division			
Understanding factors and prime numbers	Use equipment to explore the factors of a given number. 24 \div 3 = 8 24 \div 8 = 3 8 and 3 are factors of 24 because they divide 24 exactly.	Understand that prime numbers are numbers with exactly two factors. $13 \div 1 = 13$ $13 \div 2 = 6 r 1$ $13 \div 4 = 4 r 1$ 1 and 13 are the only factors of 13. 13 is a prime number.	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.



	24 ÷ 5 = 4 remainder 4. 5 is not a factor of 24 because there is a remainder.		
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. 2 ÷ 3 =
Dividing whole numbers by 10, 100 and 1,000	Use place value equipment to support unitising for division. 4,000 ÷ 1,000	Use a bar model to support dividing by unitising. $380 \div 10 = 38$	Understand how and why the digits change on a place value grid when dividing by 10, 100 or 1,000. Th H T O O O O



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

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



380 is 38 tens.

 $38 \times 10 = 380$ $10 \times 38 = 380$

So, $380 \div 10 = 38$

 $3,200 \div 100 = ?$

3,200 is 3 thousands and 2 hundreds.

$$200 \div 100 = 2$$

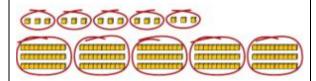
 $3,000 \div 100 = 30$

 $3.200 \div 100 = 32$

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.

$$180 \div 30 = 6$$



12 ones divided into groups of 4. There are 3 groups.

12 hundreds divided into groups of 4 hundreds. There are 3 groups.

$$1200 \div 400 = 3$$

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

$$3,000 \div 5 = 600$$

 $3,000 \div 50 = 60$

$$3,000 \div 500 = 6$$

$$5 \times 600 = 3,000$$

 $50 \times 60 = 3,000$

$$500 \times 6 = 3,000$$



Dividing up to four digits by a single digit using short division Explore grouping using place value equipment.

 $268 \div 2 = ?$

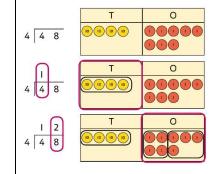
There is 1 group of 2 hundreds. There are 3 groups of 2 tens. There are 4 groups of 2 ones.

 $264 \div 2 = 134$

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.



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.

Use short division for up to 4-digit numbers divided by a single digit.

	0	5	5	6	
7	3	³ 8	³q	⁴ 2	

$$3,892 \div 7 = 556$$

Use multiplication to check.

$$556 \times 7 = ?$$

$$6 \times 7 = 42$$

 $50 \times 7 = 350$
 $500 \times 7 = 3500$

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



		4 9 2 4 9 2 4 9 2 4 9 2 4 9 2		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.	
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.		rt division and unders as the last ren		In problem solving contexts, represent divisions including remainders with a bar model. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$



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.

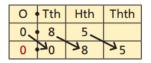
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	Daniel Complete Complete		

32 is 3 tens and 2 ones.

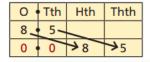
This is equivalent to 30 ones and 20 tenths. 30 ones divided by 10 is 3 ones. 20 tenths divided by 10 is 2 tenths.

32 divided by 10 is 3.2.

Understand the movement of digits on a place value grid.



$$0.85 \div 10 = 0.085$$



$$8.5 \div 100 = 0.085$$

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.



$$1 \div 3 = \frac{1}{3}$$

Use the link between division and fractions to calculate divisions.

$$5 \div 4 = \frac{5}{4} = 1\frac{1}{4}$$

$$11 \div 4 = \frac{11}{4} = 2\frac{3}{4}$$



ncrete	Pictorial	Abstract
epresent 7-digit numbers on a place value d and use this to support thinking and ental 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. TTh Th H T 0 4 0 3 6 5 + 3 5 7 2	Use column addition where mental methods are not efficient. Recognise common errors with column addition. 17,877 + 4,012 = ? TTh Th H T O TTh Th H T O T TTH Th Th T O T TTH TTH T O T TTH TTH T O T TTH TTH
en M	tal methods.	methods based on the specific calculation. Compare written and mental methods alongside place value representations. Th Th Th Th Th Th Th T



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.

I added 100 thousands then subtracted 1 thousand.

257 thousands + 100 thousands = 357 thousands

$$257,000 + 100,000 = 357,000$$

 $357,000 - 1,000 = 356,000$

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

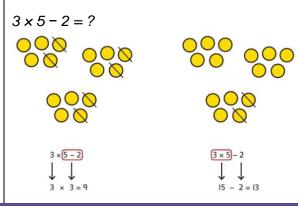
$$195,000 + 6,000 = ?$$

$$195 + 5 + 1 = 201$$

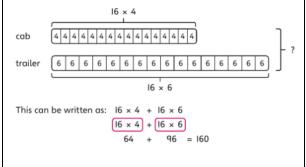
195 thousands + 6 thousands = 201 thousands

Understanding order of operations in calculations

Use equipment to model different interpretations of a calculation with more than one operation. Explore different results.



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.

$$4 + 6 \times 16$$

 $4 + 96 = 100$

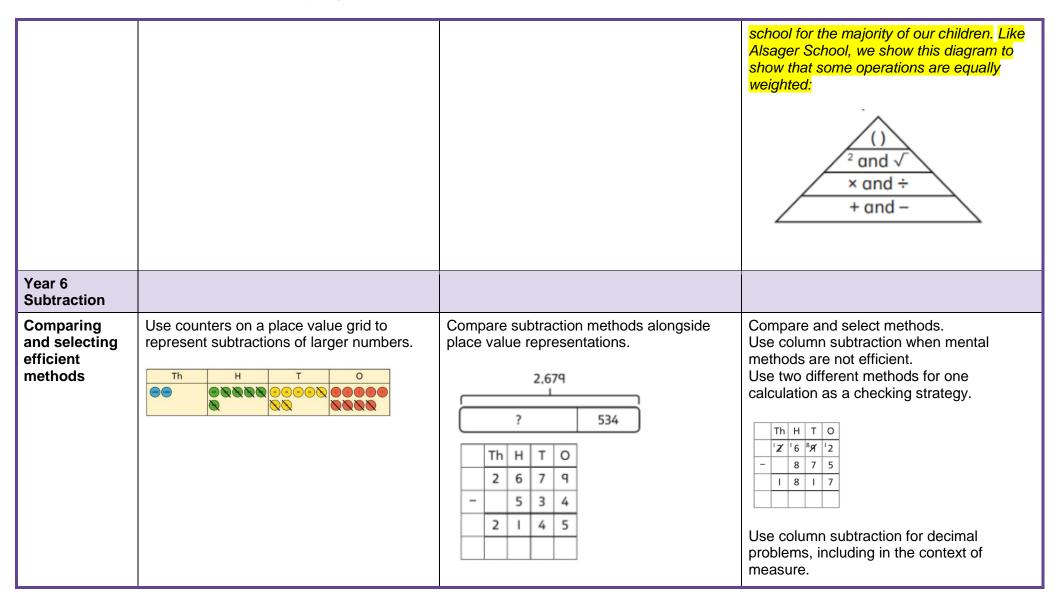
$$(4+6) \times 16$$

10 × 16 = 160

AMENDMENT: The order of operations is called BIDMAS at St Gabriel's. We use the term commonly used at Alsager School to aid continuity for the transition to high

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	Use a bar model to represent calculations, 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 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 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	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 12,000 800 80 20 1 2 9 0 0
Multiplying up to a 4-digit number by a 2-digit number		Use an area model alongside written multiplication. 200 30 5 20 4,000 600 100 1 200 30 5 4,200 + 630 + 105 = 4,935	Use compact column multiplication with understanding of place value at all stages. 2 3 5 x 2 1 2 3 5 1 × 235 4 7, 0 0 20 × 235 4 9 3 5 21 × 235



Using
knowledge of
factors and
partitions to
compare
methods for

multiplications

3 5

Use equipment to understand square numbers and cube numbers.

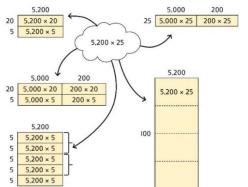




$$5 \times 5 = 5^2 = 25$$

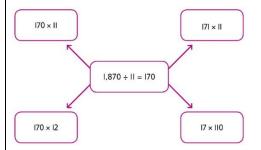
 $5 \times 5 \times 5 = 5^3 = 25 \times 5 = 125$

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.

$$15 \times 16$$

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



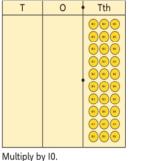
Multiplying by 10, 100 and 1,000

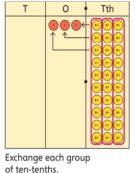
Use place value equipment to explore exchange in decimal multiplication.

0·3 x 10 = ? 0·3 is 3 tenths. 10 x 3 tenths are 30 tenths. 30 tenths are equivalent to 3 ones.

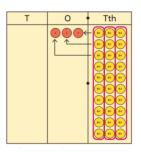
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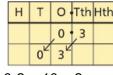
Represent 0.3.





Understand how the exchange affects decimal numbers on a place value grid.





$$0.3 \times 10 = 3$$

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

$$8 \times 100 = 800$$

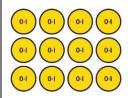
 $8 \times 300 = 800 \times 3$
 $= 2,400$

$$2.5 \times 10 = 25$$

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

Multiplying decimals

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



Represent calculations on a place value grid.

$$6 \times 3 = 18$$

 $6 \times 0.3 = 1.8$

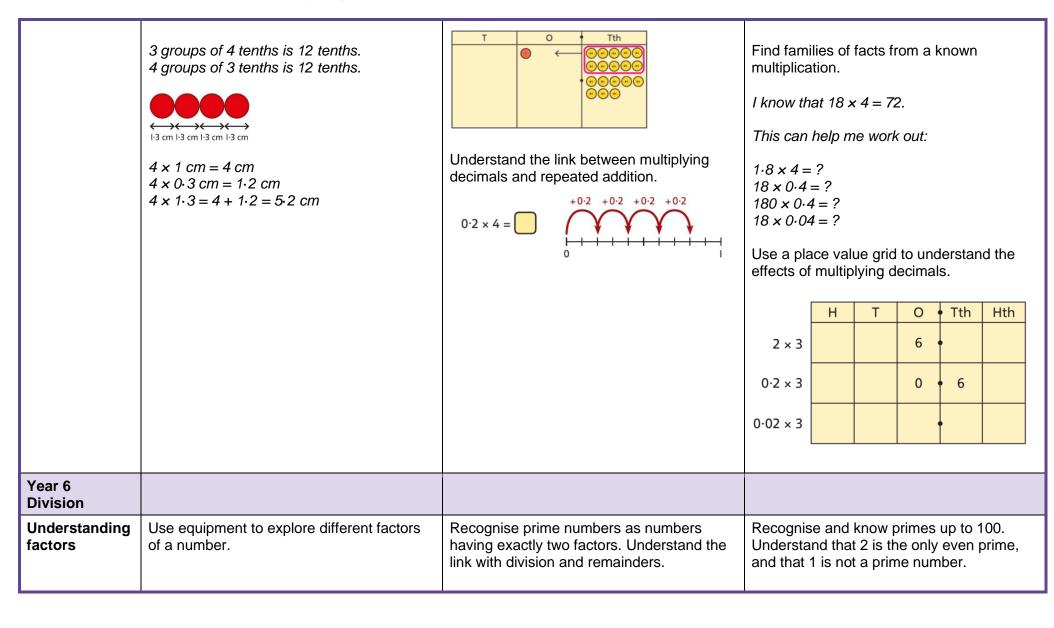
Use known facts to multiply decimals.

$$4 \times 0.3 = 1.2$$

 $4 \times 0.03 = 0.12$
 $20 \times 5 = 100$
 $20 \times 0.5 = 10$
 $20 \times 0.05 = 1$

 $4 \times 3 = 12$





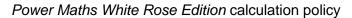
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	$24 \div 4 = 6$ 30 ÷ 4 = 7 remainder 2 4 is a factor of 24 but is not a factor of 30.	17 ÷ 2 = 8 r l	I 2 3 4 5 6 7 8 9 10 II 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50
Dividing by a single digit	There are 78 in total. There are 6 groups of 13. There are 13 groups of 6.	H T O G G are in I hundred? H T O How many groups of 6 are in I 3 tens? H T O How many groups of 6 are in I 3 tens? H T O How many groups of 6 are in I 2 ones?	Use short division to divide by a single digit. 0



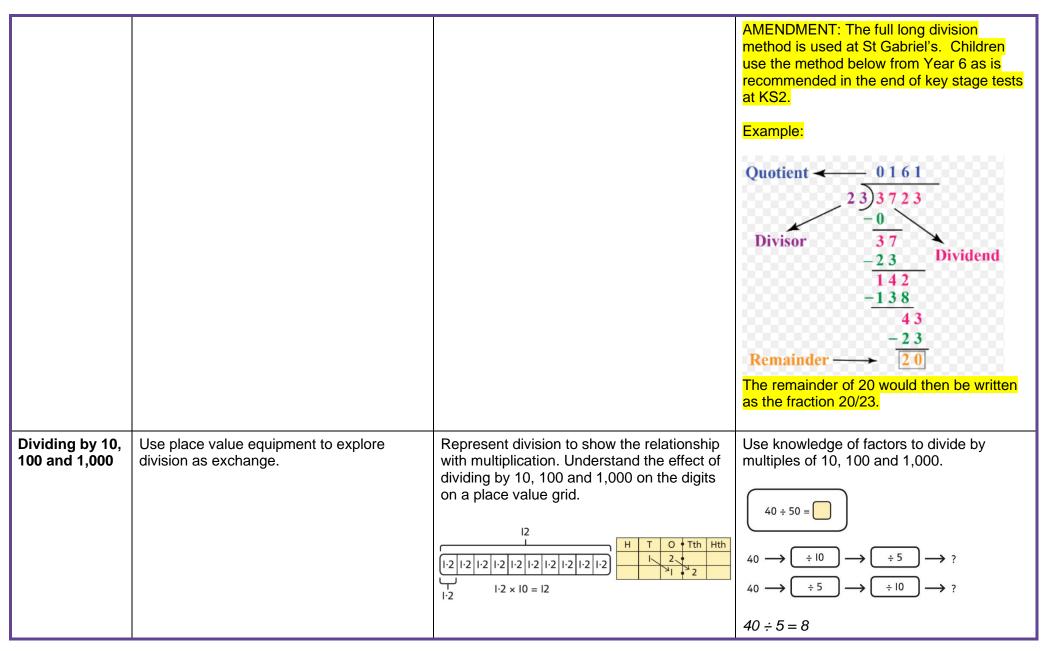
			? 10 10 1 1 6 132 6 60 60 6 6 6 6 × ? = 132 20 2 6 120 12 132 = 120 + 12 132 ÷ 6 = 20 + 2 = 22
Dividing by a 2-digit number using factors	Understand that division by factors can be used when dividing by a number that is not prime.	Use factors and repeated division. 1,260 \div 14 = ? 1,260 1,260 \div 2 = 630 630 \div 7 = 90 1,260 \div 14 = 90	Use factors and repeated division where appropriate. $2,100 \div 12 = ?$ $2,100 \longrightarrow \begin{bmatrix} \div 2 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 6 \\ \end{bmatrix} \longrightarrow$ $2,100 \longrightarrow \begin{bmatrix} \div 6 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 2 \\ \end{bmatrix} \longrightarrow$ $2,100 \longrightarrow \begin{bmatrix} \div 3 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 4 \\ \end{bmatrix} \longrightarrow$ $2,100 \longrightarrow \begin{bmatrix} \div 4 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 3 \\ \end{bmatrix} \longrightarrow$ $2,100 \longrightarrow \begin{bmatrix} \div 3 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 2 \\ \end{bmatrix} \longrightarrow \begin{bmatrix} \div 2 \\ \end{bmatrix} \longrightarrow$
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 ÷ 13 = ?





	377 ÷ 13 = 29	2 q
		2 4 7 - I 3 0 IO I 7 7 - I 7 7 9
		$377 \div 13 = 29$ A slightly different layout may be used, with the division completed above rather than at the side.
		21 7 9 8 - 6 3 0 1 6 8
		21 7 9 8 - 6 3 0
		Divisions with a remainder explored in problem-solving contexts.







	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.	Understand how to divide using division by 10, 100 and 1,000. $12 \div 20 = ?$ $12 + 10 = 1 \cdot 2$ $12 + 10 = 1 \cdot 2$ $12 \div 2 = 0 \cdot 6$	8 ÷ 10 = 0·8 So, 40 ÷ 50 = 0·8
Dividing decimals	Use place value equipment to explore division of decimals.	Use a bar model to represent divisions. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Use short division to divide decimals with up to 2 decimal places. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$