



St Chad's Calculation Policy

This calculation guidance has been written in line with the programmes of study taken from the revised National Curriculum for Mathematics (2014). It provides guidance on appropriate calculation methods and progression. The content is set out in yearly blocks under the following headings: addition, subtraction, multiplication and division. This guidance aims to develop, model and explain core understandings and mathematical principles and progression to ensure consistency in the teaching and learning of mathematics in our school.

This policy supports the White Rose Math's scheme used throughout the school. Progression within each area of calculation is in line with the programme of study in the 2014 National Curriculum. This calculation policy should be used to support children to develop a deep understanding of number and calculation. This policy has been designed to teach children through the use of concrete, pictorial and abstract representations.

- Concrete representation— a pupil is first introduced to an idea or skill by acting it out with real objects. This is a 'handson' component using real objects and is a foundation for conceptual understanding.
- Pictorial representation a pupil has sufficiently understood the 'hands on' experiences performed and can now relate them to representations, such as a diagram or picture of the problem.
- Abstract representation—a pupil is now capable of representing problems by using mathematical notation, for example $12 \times 2 = 24$. It is important that conceptual understanding, supported by the use of representation, is secure for all procedures.

Reinforcement is achieved by going back and forth between these representations.

Mathematics Mastery - At the center of the mastery approach to the teaching of mathematics is the belief that all children have the potential to succeed. They should have access to the same curriculum content and deepen their conceptual understanding by tackling differentiated, challenging and varied problems. Similarly, with calculation strategies, children must not simply rote learn procedures, but demonstrate their understanding of these procedures, through the use of Concrete Pictorial Abstract CPA as appropriate, and in reasoning and problem solving activities. This policy outlines the different calculation methods which should be used as outcomes in the EYFS curriculum and the

national curriculum in Y1 to Y6. To ensure consistency throughout school this policy outlines the following Whole School and YearGroup expectations:

- •A consistent approach to teaching and learning
- •Agreed calculation strategies
- •Non-negotiable methods for written and mental calculations
- •Precise mathematical vocabulary to be used (see additional guidelines)
- •Consistent approach to setting out calculations
- •Clear outcomes for every year group and key stages.





EYFS

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep

Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. Children should be able to count confidently, develop a deep				
understanding of the numbers to 10, the relation Addition	ships between them and the patterns within the Subtraction	see numbers (Statutory Framework 2021) Multiplication	Division	
Children are encouraged to gain a sense of the number system throughthe use of counting concrete objects.	Children are encouraged to gain a sense of the number system through the use of counting concrete objects.	Children use concrete objects to make and count equal groups of objects.	Children use concrete objects to countand share equally into 2 groups	
They combine objects in practical ways and count all.	They understand subtraction as counting out.	They will count on in twos using a bead string and number line. 1	They count a set of objects and halvethem by making two equal groups.	
They understand addition as countingon. They will count on in ones and twos using objects, cubes, bead string, reknerek and number line.	They begin to count back in ones and twos using objects, cubes, bead stringand number line. Subtraction Using Number Line 4 - 2 = 2	They understand doubling as repeated addition. 2 + 2 = 4	They understand sharing and halving asdividing by 2.	
They begin to use + and = They are encouraged to develop a mental picture of the number systemin their heads to use for calculations. Higher attaining children may be ableto represent their calculations using symbols and numbers within a written calculation	They use concrete and pictorial representation to record their calculations. They begin to use - and = Higher attaining children may be able torepresent their calculations using symbols and numbers within a written calculation	They use concrete and pictorial representation to record their calculations.	They use concrete and pictorial representation to record their calculations. Half is	

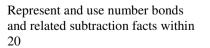






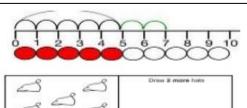


	Year 1	l Addition	CATHOLIC ACA
N.C Objective	Concrete	Pictorial	Abstract
Combining two parts to make a whole: art whole model	Use part part whole model. Use cubes to add two numbers together as a group or in a bar.	Use pictures to add two numbers together as a group or in a bar.	4 + 3 = 7 Use the part-part whole diagram as shown above to movinto the abstract.
carting at the bigger number and bounting on	Start with the larger number on the bead string and then count on to the smaller number 1 by 1 to find the answer.	12 + 5 = 17 10 11 12 13 14 15 16 17 18 19 20 Start at the larger number on the number line and count on in ones or in one jump to find the answer.	5 + 12 = 17 Place the larger number in you head and count on the smaller number to find your answer.
egrouping to make 10. This is an ssential skill for column addition later	6 + 5 = 11 Start with the bigger number and use the	3 + 9 = Use pictures or a number line. Regroup or partition the smaller number using the part part whole model to make 10.	7 + 4= 11 If I am at seven, how many more do I need to make 10. How many more do add on now?
essential skill for column addition later	bigger number	Use pictures or a number line. Regroup or partition the smaller number using the part	
	ose territories.		Emphasis should be on the language '1





2 more than 5.



5 + 2 =

Emphasis should be on the language '1 more than 5 is equal to 6.' '2 more than 5 is 7.' '8 is 3 more than 5.'





	Year 2	2 Addition	
N.C Objective	Concrete	Pictorial	Abstract
add and subtract numbers using concrete objects, pictorial representations, and mentally.	50= 30 = 20 Model using dienes and bead strings	3 tens + 5 tens = tens 30 + 50 = Use representations for base ten.	$20 + 30 = 50$ $70 = 50 + 20$ $40 + \Box = 60$
Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Children explore ways of making numbers within 20	20	
Derive and use related facts up to 100.		∴ + ∴ = ∴	3 + 4 = 7 leads to 30 + 40 = 70 leads to 300 + 400 = 700
Solve problems with addition and subtraction.	3 + 4 = 7	7 + 3 = 10	23 25 ? 23 + 25 = 48





Year 2 Addition

	Year	· 2 Addition	CATHOLIC ACADEMY
N.C Objective	Concrete	Pictorial	Abstract
Add a two-digit number and ones	Use ten frame to make 'magic ten Children explore the pattern. 17 + 5 = 22 27 + 5 = 32	Use part part whole and number line to model. 17 + 5 = 22 20 16 + 7	17 + 5 = 22 Explore related facts 17 + 5 = 22 5 + 17 = 22 22
Add a 2 digit number and tens	25 + 10 = 35 Explore that the ones digit does not change	27 + 30 +10 +10 +10 	$27 + 10 = 37$ $27 + 20 = 47$ $27 + \Box = 57$
Add two 2-digit numbers	Model using dienes , place value counters and numicon	+20 +5 Or +20 +3 +2 47 67 72 47 67 70 72 Use number line and bridge ten using part whole if necessary.	25 + 47 $20 + 5$ $40 + 7$ $20 + 40 = 60$ $5 + 7 = 12$ $60 + 12 = 72$
Add three 1-digit numbers	Combine to make 10 first if possible, or bridge 10 then add third digit	Regroup and draw representation. + = 15	4+7+6 = 10+7 = 17 Combine the two numbers that make/ bridge ten then add on the third.





	Year	· 3 Addition	
N.C Objective	Concrete	Pictorial	Abstract
Column Addition—no regrouping (friendly numbers) Add two or three 2 or 3- digit numbers.	T O Model using Dienes or numicon	Children move to drawing the counters using a tens and one frame.	2 2 3 + 1 1 4
	Add together the ones first, then the tens. Tens Ones 45 34 7 9 Calculations 21+42= 21 42	tens ones	3 3 7 Add the ones first, then the tens, then the hundreds.
Column Addition with regrouping	Move to using place value counters 39 15 5 4 Exchange ten ones for a ten. Model using numicon and pv counters. Calculations 146 +527	Children can draw a representation of the grid to further support their understanding, carrying the ten underneath the line	$\begin{array}{cccccccccccccccccccccccccccccccccccc$





	Yea	r 4-6 Addition	
N.C Objective	Concrete	Pictorial	Abstract
Y4—add numbers with up to 4 digits	Children continue to use dienes or pv counters to add, exchanging ten ones for a ten and ten tens for a hundred and ten hundreds for a thousand.		Continue from previous work to carry hundreds as well as tens. Relate to money and measures.
	Hundreds Tens Ones		
		7 1 5 1	
		Draw representations using pv grid.	
Y5—add numbers with more than 4digits. Add decimals to two decimal places, including money	As year 4 tens ones tenths hundredths Introduce decimal place value counters and model exchange for addition.	2.37 + 81.79 +ens ones +ents hundredtes 00 000 0 00000 00 00000 00 00000 00 00000	72.8 +54.6 127.4 1 1
Y6—add several numbers of increasing complexity Including adding money, measure and decimals with different numbers of decimal points.	As Y5	As Y5	8 1,05 9 3,66 8 15,30 1 + 20,551 1 20,579 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



Year 1 Subtraction

	Year I Subtraction		CATHOLIC ACADEMY	
N.C Objective	Concrete	Pictorial	Abstract	
Add and subtract one-digit and two-digit numbers to 20, including 0	Use physical objects, counters, cubes etc. to show how objects can be taken away. $6-4=2$ $4-2=2$	$15 - 3 = \boxed{12}$ Cross out drawn objects to show what has been taken away	7—4 = 3 16—9 = 7	
Counting back	Move objects away from the group, counting backwards. Move the beads along the bead string as you count backwards.	5 - 3 = 2 Count back in ones using a number line	Put 13 in your head, count back 4. What number are you at?	
Find the difference	Compare objects and amounts 7 'Seven is 3 more than four' 4 'I am 2 years older than my sister' 5 Pencils Lay objects to represent bar model	Count on using a number line to find the difference.	Hannah has 12 sweets and her sister has 5. How many more does Hannah have than her sister?	





Year 1 Subtraction

	Year 1	. Subtraction	
N.C Objective	Concrete	Pictorial	Abstract
Represent and use number bonds and related subtraction facts within 20 Part-Part Whole model	Link to addition. Use PPW model to model the inverse. If 10 is the whole and 6 is one of the arts, what is the other part? $10-6=4$	Use pictorial representations to show the part	Move to using numbers within the part whole model. 5
Make 10	Make 14 on the ten frame. Take 4 away to make ten, then take one more away so that you have taken 5	Jump back 3 first, then another 4. Use ten as the stopping point.	16—8 How many do we take off first to get to 10? How many left to take off?
Bar Model	5-2=3	*********	8 2 10 = 8 + 2 10 = 2 + 8 10—2 = 8 10—8 = 2





Year 2 Subtraction			
N.C Objective	Concrete	Pictorial	Abstract
Show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot.	Use a PV chart to show how to change a ten into ten ones, use the term 'takeand make'	20 – 4 =	20—4 = 16
Partitioning to subtract without regrouping. 'Friendly numbers'	34—13 = 21 Use Dienes toshow how to partition the number when subtracting without regrouping.	Children draw representations of Dienes and cross off. $ \begin{array}{c} \square \\ \square \\ \square \end{array} $ $ 43-21 = 22 $	43—21 = 22
Make ten strategy Progression shouldbe crossing one ten, crossing more than one ten, crossing the hundreds.	34—28 Use a bead bar or bead strings to modelcounting to next ten and the rest	Use a number line to count on to next tenand then the rest.	93—76 = 17





Year 3 Subtraction			
N.C Objective	Concrete	Pictorial	Abstract
Column subtraction without regrouping (friendly numbers)	47—32 Use base 10 or Numicon to model	Draw representations to support understanding	$47-24=23$ $-\frac{40+7}{20+3}$ Intermediate step may be needed to lead to clear subtraction understanding.
Column subtraction with regrouping	Tens Units	Tens Ones	836-254=582 800 130 6 200 50 4 500 80 2 Begin by partitioning into pv columns
	Begin with base 10 or Numicon. Move to pv counters, modelling the exchange of a ten into ten ones. Use the phrase 'take and make' for exchange	Children may draw base ten or PV counters and cross off.	7 28 - 582 = 146 7 12 8 5 8 2 1 4 6 Then move to formal method.





Year 4-6 Subtraction			
N.C Objective	Concrete	Pictorial	Abstract
Subtracting tens and ones Year 4 subtract with up to 4 digits. Introduce decimal subtraction through context of money	234 - 179	Children to draw pv counters and show their exchange—see Y3	2 x 5 4 - 1 5 6 2 1 1 9 2 Use the phrase 'take and make' for exchange
Year 5- Subtract with at least 4 digits, including money and measures. Subtract with decimal values, including mixtures of integers and decimals and aligning the decimal	As Year 4	Children to draw pv counters and show their exchange- see Y3	**X '0 ** '6 - 2 2 8 2 8, 9 2 8 Use zeros for placeholders.
Year 6—Subtract with increasingly large and more complex numbers and decimal values.			"X" 8 10, 6 9 9 - 89, 9 4 9 60, 7 5 0 "Y 10 '5 · '4 '1 9 kg - 36 · 080 kg 69 · 339 kg





	Year 1 Multiplication				
N.C Objective	Concrete	Pictorial	Abstract		
Doubling	Use practical activities using manipultives including cubes and Numicon to demonstrate doubling	Draw pictures to show how to double numbers	Partition a number and then double each part before recombining it back together.		
	double 4 is 8 4 × 2 = 8 + = = = = = = = = = = = = = = = = = =	Double 4 is 8	16 10 6 1 _{x2} 20 + 12 = 32		
Counting in multiples	Count the groups as children are skip counting, children may use their fingers as they are skip counting.	Children make representations to show counting in multiples.	Count in multiples of a number aloud. Write sequences with multiples of numbers. 2, 4, 6, 8, 10 5, 10, 15, 20, 25, 30		
Making equal groups and counting the total		Draw to show 2 x 3 = 6 Draw and make representations	2 x 4 = 8		





	Year 1 Multiplication				
N.C Objective	Concrete	Pictorial	Abstract		
Repeated addition	Use different objects to add equal groups	Use pictorial including number lines to solve problems There are 3 sweets in one bag. How many sweets are in 5 bags altogether? 3+3+3+3+3 = 15	Write addition sentences to describe objects and pictures.		
Understanding arrays	Use objects laid out in arrays to find the answers to 2 lots 5, 3 lots of 2 etc	Draw representations of arrays to show understanding	$3 \times 2 = 6$ $2 \times 5 = 10$		





	Year 2 Multiplication			
N.C Objective	Concrete	Pictorial	Abstract	
Doubling	Model doubling using dienes and PV counters. 40 + 12 = 52	Draw pictures and representations to show how to double numbers	Partition a number and then double each part before recombining it back together 16 10 10 10 10 10 10 10 10 10 10 10 10 10	
Counting in multiples of 2, 3, 4, 5, 10 from 0 (repeated addition)	Count the groups as children are skip counting, children may use their fingers as they are skip counting. Use bar models. 5+5+5+5+5+5+5+5=40	Number lines, counting sticks and bar models should be used to show representation of counting in multiples. 3 3 3 3 3	Count in multiples of a number aloud. Write sequences with multiples of numbers. 0, 2, 4, 6, 8, 10 0, 3, 6, 9, 12, 15 0, 5, 10, 15, 20, 25, 30 4 × 3 =	

	Year 2 Multiplication			
N.C Objective	Concrete	Pictorial	Abstract	
Know that multiplication is ommutative	Create arrays using counters and cubes and Numicon. Pupils should understand that an array can represent different equations and that, as multiplication is commutative, the order of the multiplication does not affect the answer.	Use representations of arrays to show different calculations and explore commutativity.	12 = 3 × 4 12 = 4 × 3 Use an array to write multiplication sentences and reinforce repeated addition. 5 + 5 + 5 = 15 3 + 3 + 3 + 3 + 3 = 15 5 x 3 = 15 3 x 5 = 15	
Ising the Inverse This should be taught alongside Tivision, so pupils learn how they Fork alongside each other.		X	$2 \times 4 = 8$ $4 \times 2 = 8$ $8 \div 2 = 4$ $8 \div 4 = 8$ $8 = 2 \times 4$ $8 = 4 \times 2$ $2 = 8 \div 4$ $4 = 8 \div 2$ Show all 8 related fact family sentences	





Year 3 Multiplication

N.C Objective	Concrete	Pictorial	Abstract	
Grid Method	Show the links with arrays to first introduce the grid method.	Children can represent their work with place value counters in a way that they understand. They can draw the counters using colours to show different amounts	Start with multiplying by one- digitnumbers and showing the clear addition alongside the grid.	
	of 10 4 rows of 3	or just use the circles in the different columns to show their thinking as shown	× 30 5	
	Move onto base ten to move towards a	below	7 210 35	
	Move on to place value counters to show how we are finding groups of a number. We are multiplying by 4 so we need 4 rows Fill each row with 126 Add up each column, starting with the ones making any exchanges needed Then you have your answer.	Bar model are used to explore missing numbers 4 x = 20 20 4	Moving forward, multiply by a 2-digitnumber showing the different rows within the grid method. 10 8 10 80 3 30 24	

EH	Year 4 M	Sultiplication	EMMA
N.C Objective	Concrete	Pictorial	Abstract CATHOLIC ACADE
Grid method recap from year 3 for 2 digits x 1 digit Move to multiplying 3digit numbers by 1 digit. (year 4 expectation)	Use place value counters to show how we are finding groups of a number. We are multiplying by 4 so we need 4 rows	Children can represent their work with place value counters in a way that they understand. They can draw the counters using colours to show different amounts	Start with multiplying by one- digitnumbers and showing the clear addition alongside the grid.
•	Calculations 4 x 126	or just use the circles in the different	× 30 5
		columns to show their thinking as shown below.	7 210 35
	Fill each row with 126		210 + 35 = 245
	Add up each column starting with the ones making any exchanges needed		
Column multiplication	Children can continue to be supported by place value counters at the stage of multiplication. This initially done where there is no regrouping 321 x 2 = 642 Hundreds Tens Ones Always multiply the ones first The corresponding long multiplication is modelled alongside	x 300 20 7 4 1200 80 28 The grid method may be used to show how this relates to a formal written method. Bar modelling and number lines can support learners when solving problems with multiplication alongside the formal written methods.	327 x 4 28 80 1200 1308 This may lead to a compact method.





Year 5/6 Multiplication

N.C Objective	Concrete	Pictoria I	Abstract
Column Multiplication for 3 and 4digits x 1 digit.	It is important at this stage that they always multiply the ones first. Hundreds Tens Ones Children can continue to be supported by place value counters at the stage of multiplication. This initially done where there is no regrouping. 321 x 2 = 642	x 300 20 7 4 1200 80 28	327 x 4 28 80 1200 1308 This will lead to a compact method.
Column multiplication	Manipulatives may still be used with the corresponding long multiplication modelled alongside.	10 8 80 30 24 Continue to use bar modelling to support problem solving	1 8 18 x 3 on the first row x 1 3 (8 x 3 = 24, carrying the 2 for 20, then 1 x 3) 18 x 10 on the 2nd row. Show multiplying by 10 by putting 7 4 0 4 (1234 x 6) zero in 1 2 3 4 0 (1234 x 10) units first

	Year 6 Mult	iplication	CATHOLIC ACADE
N.C Objective	Concrete	Pictorial	Abstract
Multiplying decimals up to 2 decimal places by a single digit.	Manipulatives may still be used with the corresponding long multiplication modelled alongside		Remind children that the single digit belongs in the units column. Line up the decimal points in the question and the answer.
			3 · 1 9 × 8
			25.52
			When appropriate, children can use their place value knowledge to make the number being multiplied 10, 100 or 1000 times bigger and then multiply and make the answer 10, 100 or 1000 times smaller.
			$ \begin{array}{r} 319^{(x100)} \\ x 8 \\ \hline 2552_{(+100)} = 25.52 \end{array} $





	Year 1 Division			
N.C Objective	Concrete	Pictoria l	Abstract	
Division as sharing			12 shared between 3 is 4	
Use Gordon ITPs for modelling		Children use pictures or shapes to share quantities.		
		8 shared between 2 is 4		
	10	Sharing: 4 4 12 shared between 3 is 4		





Year 2 Division

N.C Objective	Concrete	Pictoria	Abstract
Division as sharing	I have 10 cubes, can you share them equally in 2 groups?	Children use pictures or shapes to share quantities 8 + 2 = 4 Children use bar modelling to show and support understanding.	12 ÷ 3 = 4
Division as grouping	Divide quantities into equal groups. Use cubes, counters, objects or place value counters to aid understanding.	Use number lines for grouping 1	28 ÷ 7 = 4 Divide 28 into 7 groups. How many arein each group?

	Year	EMMAUS	
N.C Objective	Concrete	Pictoria I	Abstract CATHOLIC ACADEMY TRUS
Division as grouping	Use cubes, counters, objects or place value counters to aid understanding.	Continue to use bar modelling to aid solving division problems.	How many groups of 6 in 24?
	24 divided into groups of 6 = 4	20	24 ÷ 6 = 4
	96 ÷ 3 = 32	20 ÷ 5 = ? 5 x ? = 20	
Division with arrays		Draw an array and use lines to split the array into groups to make multiplication and division sentences	Find the inverse of multiplication and division sentences by creating eight linking number sentences.
	Link division to multiplication by creating		7 x 4 = 28 4 x 7 = 28
	an array and thinking about the number sentences that can be created.	00000	28 ÷ 7 = 4
	Eg 15 ÷ 3 = 5 5 x 3 = 15	00000	28 ÷ 4 = 7
	$15 \div 5 = 3$ $3 \times 5 = 15$		28 = 7 x 4 28 = 4 x 7
			4 = 28 ÷ 7
			7 = 28 ÷ 4





	Year 3 Division			
N.C Objective	Concrete	Pictoria l	Abstrac t	
Division with remainders	14 ÷ 3 = Divide objects between groups and see how much is left over	Jump forward in equal jumps on a number line then see how many more you need to jump to find a remainder	Complete written divisions and show the remainder using r.	
		Draw dots and group them to divide an amount and clearly show a remainder.	$29 \div 8 = 3 \text{ REMAINDER 5}$ $\uparrow \uparrow \uparrow$ dividend divisor quotient remainder	
		Use bar models to show division with remainders.		
		10 10 10 7		





Year 4-6 Division Pictorial

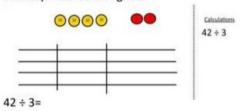
Divide at least 3 digit numbers by 1 digit. Short Division

N.C Objective

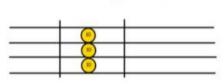
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Concrete

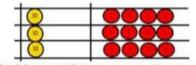
Use place value counters to divide using the bus stop method alongside



Start with the biggest place value, we are sharing 40 into three groups. We can put 1 ten in each group and we have 1 ten left over.

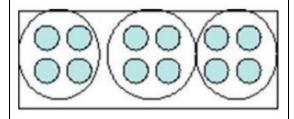


We exchange this ten for ten ones and then share the ones equally among the groups.



We look how much in 1 group so the answer is 14.

Students can continue to use drawn diagrams with dots or circles to help them divide numbers into equal groups.



Encourage them to move towards counting in multiples to divide more efficiently.

Begin with divisions that divide

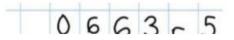
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Begin with divisions that divide equally with no remainder.

equally with no remainder.

Move onto divisions with a remainder.

Finally move into decimal places to divide the total accurately.





Year 6 Long Division.

When dividing the ones, 4 goes into 7 one time. Multiply $1 \times 4 = 4$, write that four under the 7, and subract. This finds us the remainder of 3.

Check: $4 \times 61 + 3 = 247$

When dividing the ones, 4 goes into 9 two times. Multiply $2 \times 4 = 8$, write that eight under the 9, and subract. This finds us the remainder of 1.

Check: $4 \times 402 + 1 = 1,609$





Step 1—a remainder in the ones

- 4 does not go into 1 (hundred). So combine the 1 hundred with the 6 tens (160).
- 4 goes into 16 four times.
- 4 goes into 5 once, leaving a remainder of 1.

- 8 does not go into 3 of the thousands. So combine the 3 thousands with the 2 hundreds (3,200).
- 8 goes into 32 four times $(3,200 \div 8 = 400)$
- 8 goes into 0 zero times (tens).
- 8 goes into 7 zero times, and leaves a remainder of 7.

1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.
2 2)58	2 2)58 -4 1	2 9 2) 5 8 - 4 \ 1 8
Two goes into 5 two times, or 5 tens ÷ 2 = 2 whole tens but there is a remainder!	To find it, multiply 2 × 2 = 4, write that 4 under the five, and subtract to find the remainder of 1 ten.	Next, drop down the 8 of the ones next to the leftover 1 ten. You combine the remainder ten with 8 ones, and get 18.

1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.		
2 9 2) 5 8 - 4 1 8	t o 29 2)58 -4 18 -18	2 9 2) 5 8 -4 1 8 -1 8		
Divide 2 into 18. Place 9 into the quotient.	Multiply 9 × 2 = 18, write that 18 under the 18, and subtract.	The division is over since there are no more digits in the dividend. The quotient is 29.		



1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.		
1 2)278	1 2)278 -2 0	2)278 -2,07		
Two goes into 2 one time, or 2 hundreds ÷ 2 = 1 hundred.	Multiply 1 × 2 = 2, write that 2 under the two, and subtract to find the remainder of zero.	Next, drop down the 7 of the tens next to the zero.		
Divide.	Multiply & subtract.	Drop down the next digit.		
h t o 1 3 2) 2 7 8 -2 0 7 Divide 2 into 7. Place 3 into the quotient.	$\begin{array}{c} h \text{ t o} \\ 13 \\ 2)278 \\ \underline{-2} \\ 07 \\ \underline{-6} \\ 1 \\ \end{array}$ Multiply $3 \times 2 = 6$, write that 6 under the 7, and subtract to find the remainder of 1 ten.	13 2)278 -2 07 -6 18 Next, drop down the 8 of the ones next to the 1 leftover ten.		
1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.		
13 <mark>9</mark> 2)278 -2 07 -6	139 2)278 -2 07 -6 18 -18	2)278 -2 07 -6 18 -18 0		
Divide 2 into 18. Place 9 into the quotient.	Multiply 9 × 2 = 18, write that 18 under the 18, and subtract to find the remainder of zero.	There are no more digits to drop down. The quotient is 139.		