

Gilthill Primary School Calculation Policy

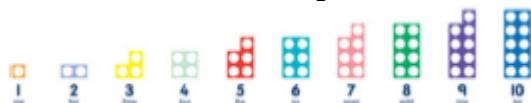
Addition

EYFS

Guidance/models and images

Numicon shapes are introduced and used to

- Identify 1 more/less
- Combine pieces to add
- Find number bonds
- Add without counting



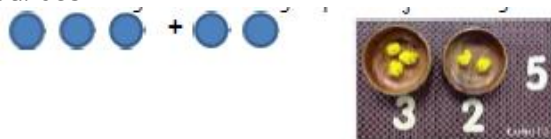
Children can record this by printing or drawing around numicon pieces.



Tens frames can be used to

- Identify 1 more/less
- Find number bonds

Children can begin to combine groups of objects using concrete resources



Key vocabulary

Plus
Estimate
Add
More
And
Sum
Total
Make
Altogether
Score
Double
One more, two more, three more
How many more make.....?
How many more is..... than.....?
Same as

Construct number sentences verbally or with cards to go with practical



1	+	1	=	2
---	---	---	---	---

activities.

Children should be encouraged to read number sentences aloud in different ways.

$$3 + 2 = 5$$

Three add two equals five, five is equal to three add two or five is the same as three and two

Children make a record in pictures, words or symbols of addition activities.



$$3 + 5 = 8$$

$$5 + 1 = 6$$

Solve simple problems using fingers

Introduce number tracks to count up on and to find one more

What is one more than 4?

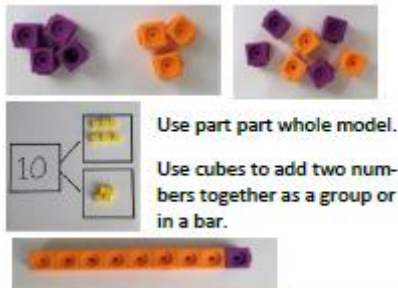
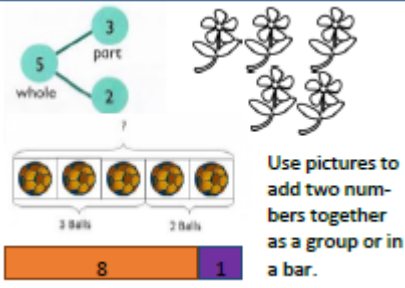
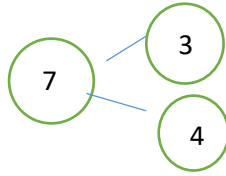

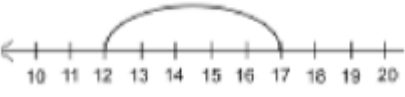

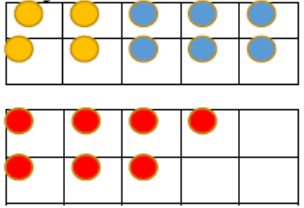
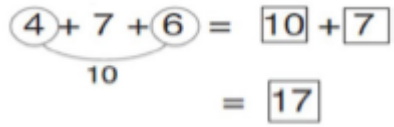
1	2	3	4	5	6
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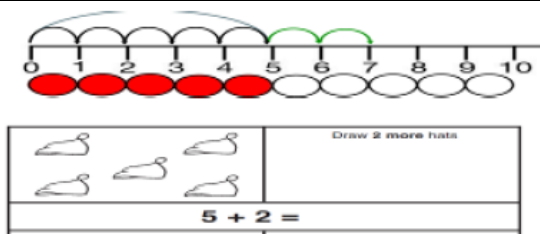
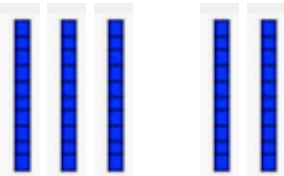

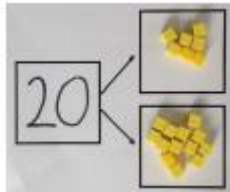
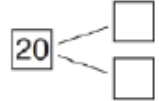
Use number lines alongside number tracks and practical apparatus to solve addition calculations and word problems.


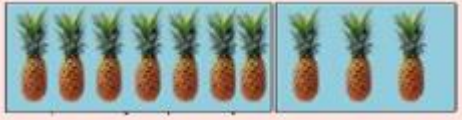
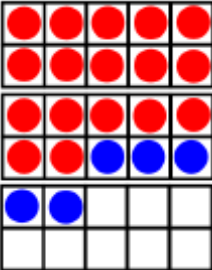

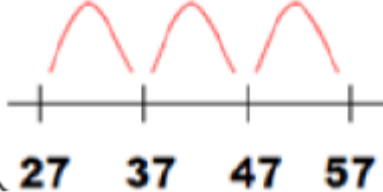
$$5 + 3 = 8$$


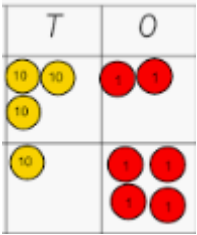
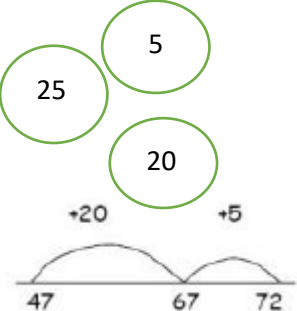
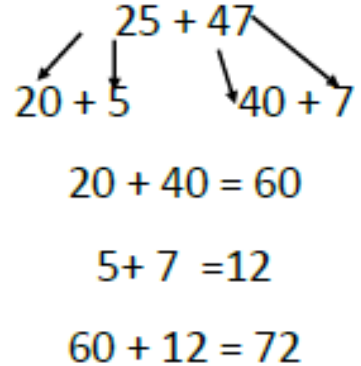
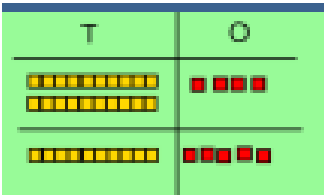
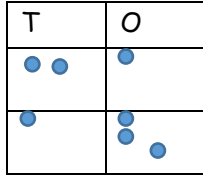
Addition

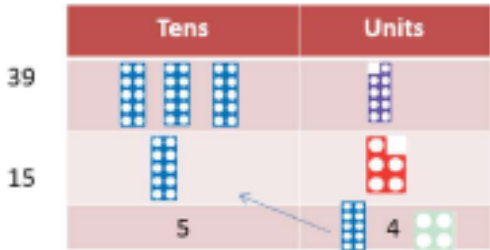
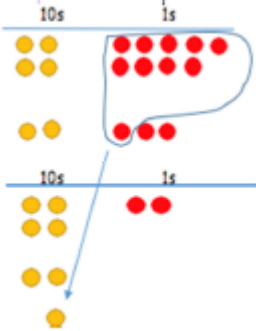

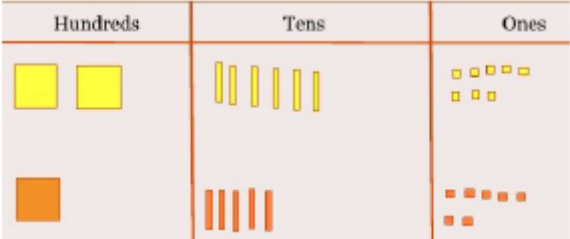
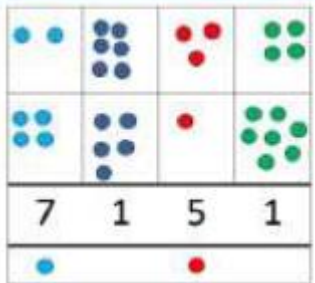
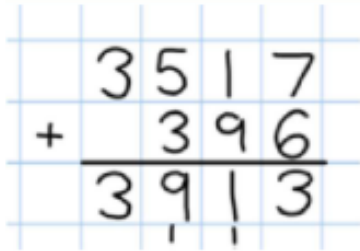

KS1/KS2

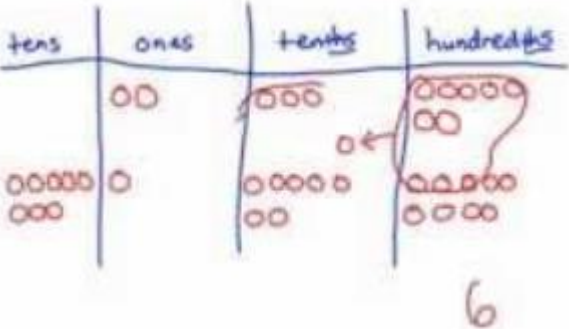
Objective	Concrete	Pictorial	Abstract
Combining 2 parts to make a whole, part-whole model	 <p>Use part part whole model.</p> <p>Use cubes to add two numbers together as a group or in a bar.</p>	 <p>Use pictures to add two numbers together as a group or in a bar.</p>	$4 + 3 = 7$  <p>4 is a part, 3 is a part and 7 is the whole</p>
Start at the bigger number and count on	 <p>Start with the bigger number on the bead string and then count on the smaller number 1 by 1 to find the answer</p>	$12 + 5 = 17$  <p>Start at the larger number on the number line and then count on in ones or in one jump to find the answer</p>	$5 + 12 = 17$ <p>Place the larger number in your head and count on the smaller number to find your answer</p>
Add 3 single digits	$4 + 7 + 6 = 17$ <p>Combine to make 10 first</p> 	$4 + 6 + 7 =$ <p>Draw a picture representation and regroup to make 10</p> 	$4 + 7 + 6 = 10 + 7 = 17$  <p>Combine the 2 numbers that make 10 and then add on the rest.</p>

Represent and use number bonds and related subtraction facts within 20	 <p>2 more than 5</p>		<p>Emphasis should be on the language</p> <p>1 more than 5 is equal to 6</p> <p>2 more than 5 is 7</p> <p>8 is 3 more than 5</p>
Adding multiples of 10	<p>$50 = 30 + 20$</p> <p>Use dienes</p> 	 <p>3 tens add 5 tens equals</p> <p>$30 + 50 =$</p>	<p>$20 + 30 = 50$</p> <p>$70 = 50 + 20$</p> <p>$40 + \square = 60$</p>
Use known number facts	<p>Children explore ways of making numbers within 20</p> 	 <p>$\square + \square = 20$ $20 - \square = \square$</p> <p>$\square + \square = 20$ $20 - \square = \square$</p>	<p>$\square + 1 = 16$ $16 - 1 = \square$</p> <p>$1 + \square = 16$ $16 - \square = 1$</p>
Using known facts	<p>$\square\square + \square\square = \square\square\square\square$</p> <p>$\square\square + \square\square = \square\square\square\square$</p>	<p>$\cdot\cdot + \cdot\cdot = \cdot\cdot\cdot\cdot$</p> <p>$\text{ } + \text{ } = \text{ }$</p>	<p>$3 + 4 = 7$</p> <p>Leads to</p> <p>$30 + 40 = 70$</p> <p>Leads to</p> <p>$300 + 400 = 700$</p>

Bar model	<div></div> <div>$3 + 4 = 7$</div>	<div></div> <div>$7 + 3 = 10$</div>	<div><table border="1"><tr><td>23</td><td>25</td></tr><tr><td colspan="2">?</td></tr></table></div> <div>$23 + 25 = 48$</div>	23	25	?	
23	25						
?							
Add a 2 digit number and ones	<div>$17 + 5 = 22$ Use 10 frames to make ten</div> <div></div> <div>Children expolre the pattern</div> <div>$17 + 5 = 22$ $27 + 5 = 32$ $37 + 5 = 42$</div>		<div>$17 + 5 = 22$ Explore facts $17 + 5 = 22$ $5 + 17 = 22$ $22 - 5 = 17$ $22 - 17 = 5$</div> <div><table border="1"><tr><td colspan="2">22</td></tr><tr><td>17</td><td>5</td></tr></table></div>	22		17	5
22							
17	5						
Add a 2 digit number and tens	<div>Explore that the ones does not change</div> <div></div> <div>$25 + 10 = 35$</div>	<div>$27 + 30$</div> <div>$+10 +10 +10$</div> <div></div> <div>$27 \quad 37 \quad 47 \quad 57$</div>	<div>$27 + 10 = 37$ $27 + 20 = 47$ $27 + \square = 67$</div>				

<p>Add 2 2 digit numbers</p>	<p>Model using dienes, place value counters and numicon</p>  <p>25 + 47</p>  <p>32 + 14 = 46</p>	<p>47 + 25 = 72</p> <p>Start with bigger number, partition the smaller number and add on</p>  <p>47 + 20 = 67 67 + 5 = 72</p>	 <p>20 + 40 = 60 5 + 7 = 12 60 + 12 = 72</p>
<p>Column addition - no regrouping</p>	<p>24 + 15 =</p> <p>Use dienes and then place value counters to model.</p> <p>Add the ones first and then the tens</p> 	<p>Children move to drawing the counters using a tens and ones frame</p> 	$\begin{array}{r} 223 \\ + 114 \\ \hline 337 \end{array}$ <p>Add the ones first, then the tens, then the ones.</p>
<p>Column addition - regrouping</p>	<p>39 + 15 =</p>	<p>34 + 17 =</p> <p>Children draw a representation of the grid and carry the ten underneath the line</p>	<p>25 + 48 =</p> <p>Model partitioning the numbers before formal column method</p> <p>20 + 5 40 + 8 60 + 13 = 73</p>

	 <p>Model exchanging 10 ones for a ten using numicon, dienes or place value counters</p>		$\begin{array}{r} 536 \\ + 85 \\ \hline 621 \\ 11 \end{array}$
Estimate the answers to questions and use the inverse to check answers	<p>Estimating $98 + 17 =$ $100 + 20 = 120$</p> <p>Use dienes, numicon or place value counters</p>	<p>Draw number lines to show estimation</p> 	<p>Building up known facts and using them to illustrate the inverse and check answers</p> <p>$98 + 18 = 116$ $116 - 18 = 98$</p> <p>$18 + 98 = 116$ $116 - 98 = 18$</p>
Add numbers with up to 4 digits	<p>Children continue to use dienes, place value counters to add, exchanging ten ones for a ten, ten tens for a hundred, tens hundreds for a thousand.</p> 	<p>Draw representations using a place value grid</p> 	<p>Continue from previous work to carry hundreds as well as tens</p> 
Add numbers with more than 4 digits Add decimals with 2 decimal places including money	<p>Introduce decimal place value counters and model exchange for addition</p> 	<p>$2.37 + 81.79$</p>	$\begin{array}{r} 72.8 \\ + 54.6 \\ \hline 127.4 \\ 11 \end{array}$

			$\begin{array}{r} \pounds 23.59 \\ + \pounds 7.55 \\ \hline \pounds 31.14 \end{array}$
Add several numbers of increasing complexity	As above	As above	<p>Insert zeros for place holders</p> $\begin{array}{r} 81,059 \\ 3,668 \\ 15,301 \\ + 20,551 \\ \hline 120,579 \end{array}$ $\begin{array}{r} 23.361 \\ 9.080 \\ 59.770 \\ + 1.300 \\ \hline 93.511 \end{array}$

EYFS

Subtraction

Useful models, guidance and images

Concrete apparatus is used to relate subtraction to taking away and counting



how many objects are left. E.G $5 - 2 =$

Construct number sentences verbally or using cards to go with practical activities.



$$5 - 1 = 4$$

Children should be encouraged to read aloud sentences in different ways

Five subtract 1 is four, four is equal to five take subtract one, four is the same as five subtract one.

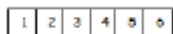
Children make a record in pictures, words or symbols of subtraction activities



Solve simple problems using fingers



Number tracks can be introduced to count back and to find one less, what is one less than 9? 1 less than 20?



Key vocabulary

Take away

Leave

Estimate

Left

Fewer

Less

Difference between

Same as

Counting/hopping back

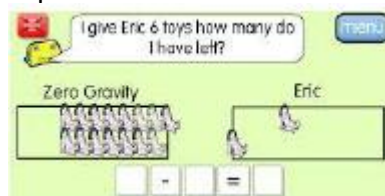
How many are left?

How many have gone?

One less, two less, three less


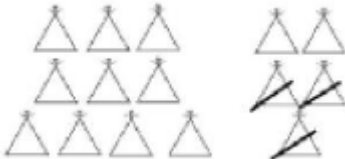

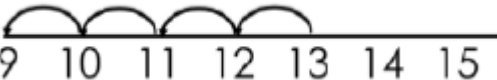

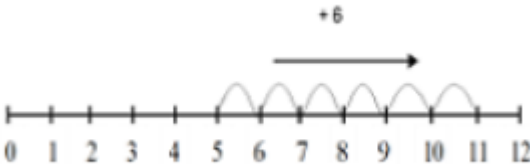
How many fewer is.....?

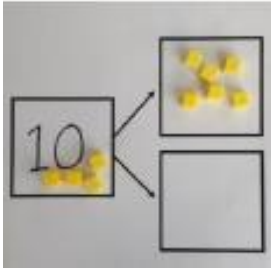
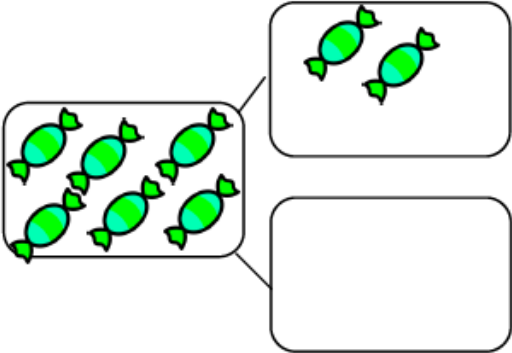

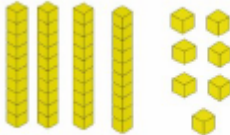
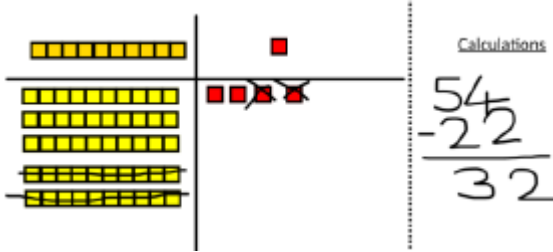

Number lines can be used alongside number tracks and practical apparatus to solve subtraction calculations and word problems. Children count back showing hops back on the number line



Subtraction

KS1/2

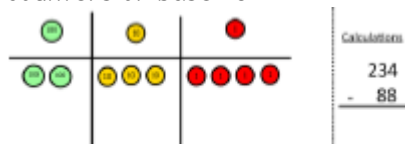
Objective	Concrete	Pictorial	Abstract
Take away ones	<p>Use physical objects, counters, cubes, etc to show how objects can be taken away.</p> $6 - 2 = 4$ 	<p>Cross out drawn objects to show what has been taken away</p> $15 - 3 = 12$ 	$18 - 3 = 15$ $8 - 2 = 6$
Counting back	<p>Move objects away from the group as you count back</p> $7 - 2 = 5$ 	<p>Count back on a number line</p> $13 - 4 = 9$  <p>Start at the bigger number and count back the smaller number showing the jumps on the number line</p>	<p>Put 13 in your head and count back 4. What number are you at? Use your fingers to help</p>
Find the difference	<p>Compare objects and amounts</p>  <p>Use cubes or build towers to make bars to find the difference</p>	<p>Count on using a number line to find the difference</p> 	<p>Hannah has 23 sandwiches, Helen has 15 sandwiches. Find the difference between the number of sandwiches.</p>

	12 is 1 more than 11		
Part part whole model	 <p>Link to addition, use the part whole model to show the inverse between addition and subtraction If 10 is the whole and 6 is one of the parts, what is the other part? $10 - 6 =$</p>	<p>Use pictorial representations to show the part</p> 	<p>Move to using numbers within the representation</p>  <p>Include missing number problems $12 - ? = 5$ $7 = 12 - ?$</p>
Column method without regrouping	<p>Use base 10/dienes to make the larger number and then take the smaller number away.</p>  <p>$47 - 32$</p>	<p>Draw the base 10 alongside the written calculation to help show working out.</p>  <p>Calculations</p> $\begin{array}{r} 54 \\ - 22 \\ \hline 32 \end{array}$	<p> $47 - 24 =$ $7 - 4 =$ $40 - 20 =$ This will lead to a clear written method </p> 

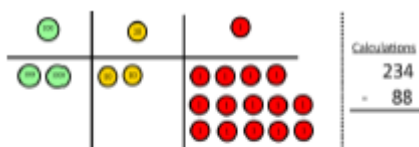
Column method with regrouping

Use base 10 or numicon to model exchanging a ten for ten ones first.
Use exchanging a ten before progressing to exchanging a hundred or thousand

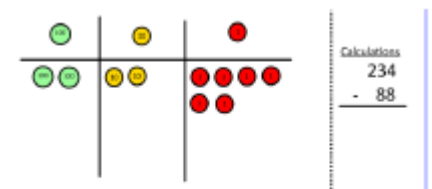
Make the larger number with place value counters or base 10



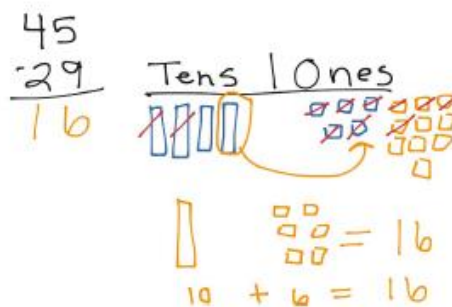
Start with the ones, can I take away 8 from 4 easily? I need to exchange one of my tens for ten ones.



Now I can subtract my ones.

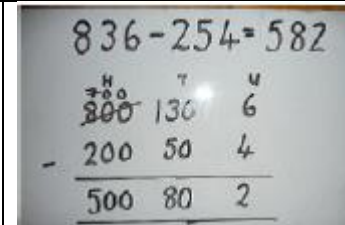


Now look at the tens, can I take away 8 tens easily? I need to exchange one hundred for ten tens.



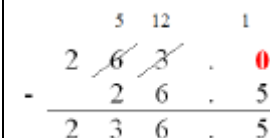
Children may draw base ten showing the exchange and cross off what is being taken away

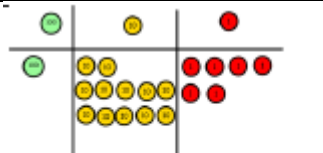
When confident children will find their own way of showing the exchange



Partition into place value columns

Children will move to a more compact method and will lead to an understanding of subtracting any number including decimals.





Calculations

$$\begin{array}{r} 234 \\ - 88 \\ \hline \end{array}$$

Now I can take away eight tens and complete my subtraction

Show children how the concrete method links to the written method alongside your working. Cross out your numbers when exchanging and show where to write the new numbers

EYFS

Multiplication

Guidance, models and images

The link between addition and multiplication can be introduced through doubling.

Numicon can be used to visualise the repeated adding of the same number.



Children can record this by drawing around or printing the piece

Begin with mostly concrete or pictorial representations



How many groups of 2? $2 + 2 + 2 + 2 + 2$, so 5

groups of 2

Use real life contexts and use of practical equipment to count in repeated groups of the same size



How many wheels altogether?



How much money do I have?

Count in 2s, 5s, and 10s both aloud and with objects



Key vocabulary

Lots of, groups of, multiplied, multiplied by

Multiple of

Once, twice, three times

...times as ... (big, wide, long...)

Repeated addition

Double

Estimate

Add again and again

Give children multiplication problems set in real life contexts. Encourage them to visualise the problem using concrete materials or by drawing pictures. E.G how many fingers on two hands?



How many sides on 3 triangles?





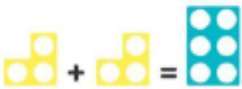
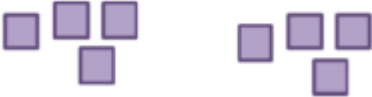
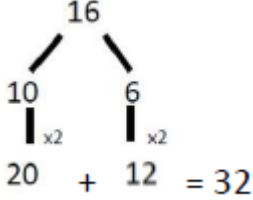








How many legs on four ducks?



Children should be encouraged to read number sentences aloud in different ways. 'five times two makes ten' 'ten is equal to five multiplied by two' 'ten is the same as five lots of two'

KS1/2

Multiplication

	Concrete	Pictorial	Abstract
Doubling	<p>Using practical activities and objects such as cubes or numicon demonstrate doubling</p> <p></p> <p></p> <p></p>	<p>Draw pictures to show how to double numbers</p> <p>Double 4 is 8</p> <p></p>	<p>Partition a number and then double each part before recombining it back together</p> <p></p>
Counting in multiples	<p>Count in multiples supported by concrete objects and equal groups</p> <p></p>	<p>Use a number line or pictures to continue support in counting in multiples</p> <p></p> <p></p> <p></p>	<p>Count in multiples of a number aloud. Write sequences with multiples of numbers</p> <p>2,4,6,8, 5,10,15,20</p>
Making equal groups and counting the total	<p>Use objects to create equal groups</p> <p></p>	<p>Draw pictures to show $2 \times 3 = 6$</p> <p></p>	<p>$2 \times 4 = 8$</p>
Repeated addition	<p>Use different objects to add equal groups</p> <p>$3 + 3 + 3 =$</p>	<p>Use pictures including number lines to solve problems</p> <p>There are 2 plates with 3 star biscuits on each plate, how many biscuits in total?</p> <p></p>	<p>Write addition sentences to describe objects and pictures</p> <p></p> <p>$2 + 2 + 2 + 2 =$</p>

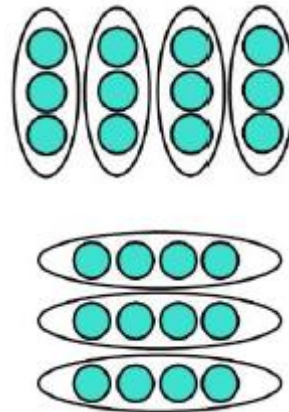


Understanding arrays
Show commutative multiplication

Use objects laid out in arrays to find the answer to 2 lots of 5, 3 lots of 2 etc



Draw representations of arrays to show understanding



Use an array to write multiplication sentences and reinforce repeated addition.



$$5 + 5 + 5 = 15$$

$$3 + 3 + 3 + 3 + 3 = 15$$

$$5 \times 3 = 15$$

$$3 \times 5 = 15$$

Use place value charts for multiplication

Tens	Ones

$$3 \text{ tens} \times 2 = \text{ ______ } \text{ tens}$$

$$2 \text{ ones} \times 2 = \text{ ______ } \text{ ones}$$

$$\text{ ______ } + \text{ ______ } = \text{ ______ }$$

$$32 \times 2 = \text{ ______ }$$

Tens	Ones

$$2 \text{ tens} \times 4 = \text{ ______ } \text{ tens}$$

$$1 \text{ one} \times 4 = \text{ ______ } \text{ ones}$$

$$\text{ ______ } + \text{ ______ } = \text{ ______ }$$

$$21 \times 4 = \text{ ______ }$$

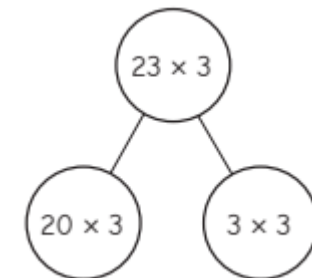
x	10	3
4		

4 rows
of 10
4 rows
of 3

answer

Children can represent the work they have done with place value counters in a way they understand. They can draw the counters, using colours to show different amounts, or just circles in different columns to show their thinking.

Hundreds	Tens	Ones



$$20 \times 3 = 60$$

$$3 \times 3 = 9$$

$$23 \times 3 = 69$$

► 32×4

$$= \text{ ______ } \text{ tens} \times 4 + \text{ ______ } \text{ ones} \times 4$$

$$= \text{ ______ } + \text{ ______ }$$

$$= \text{ ______ }$$

			<div data-bbox="1630 140 2112 371"> </div> <div data-bbox="1612 630 2112 694"> <p>Move forward to the more formal written method Y4</p> </div> <div data-bbox="1630 707 1800 882"> $\begin{array}{r} 35 \\ \times 7 \\ \hline 245 \\ \hline 3 \end{array}$ </div>								
Column method	<p>Children can continue to be supported by place value counters at this stage of multiplication</p> <p>It is important at this stage that they multiply the ones first and note down the answer followed by the tens which they note below</p>	<p>Multiplication by partitioning and grid method may be used to show how it links to more formal written method</p> <p>$42 \times 8 =$</p> <p>$40 \times 8 = 320$ $2 \times 8 = 16$ $320 + 16 = 336$</p> <table border="1" data-bbox="1126 1145 1464 1228"> <tr> <td>x</td><td>300</td><td>20</td><td>7</td></tr> <tr> <td>4</td><td>1200</td><td>80</td><td>28</td></tr> </table>	x	300	20	7	4	1200	80	28	<div data-bbox="1612 890 1756 1165"> $\begin{array}{r} 327 \\ \times 4 \\ \hline 28 \\ 80 \\ \hline 1200 \\ \hline 1308 \end{array}$ </div> <p>This leads to more compact method</p>
x	300	20	7								
4	1200	80	28								
Multiplying decimals up to			Remind children that the single digit belongs in the ones cloumn, Line up the								

2 decimal
places by a
single digit

decimal points in the question and the
answer

$$\begin{array}{r} 3.19 \\ \times 8 \\ \hline 25.52 \end{array}$$

EYFS

Division

Useful guidance, models and images

Key vocabulary

Solve problems including doubling, halving and sharing.
 Show children representations of division as grouping and sharing.
 Introduce through **halving**,
 e.g concrete and pictorial representations linked to real life.



Grouping
 Mum has 6 socks, she grouped them into pairs, How many pairs did she make? How many socks did she have altogether?



Sharing - this is a useful way to introduce children to fractions and calculating with fractions.
 I have ten sweets, I want to share them with my friend, how many will we both have?



I have got a whole pizza to share between two people. Can you cut the pizza in half?






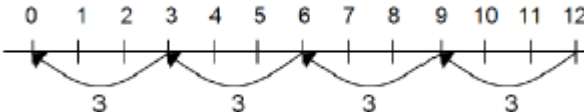
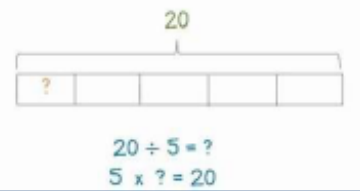

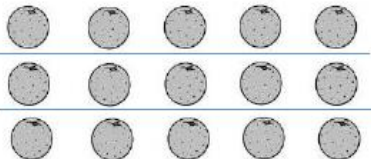
Children can record in pictures, words or symbols.

Halve, share, share equally
 One each, two each
 Group in pairs, threes
 Equal groups of
 Divide
 Divided by
 Divided into
 Left over
 Estimate
 Fraction
 Half
 Halves
 Whole
 quarter

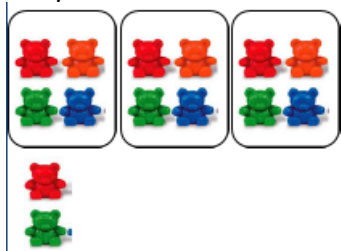
KS1/2

Division

	Concrete	Pictorial	Abstract
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Sharing objects into groups	<p>I have 10 cubes can you share them equally into 2 groups?</p> 	<p>Children use pictures or shapes to share quantities</p>  <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> $8 \div 2 = 4$ </div>	<p>Share 9 buns between 3 people</p> $9 \div 3 = 3$
Division as grouping	<p>Divide quantities into equal groups. Use cubes, counters, objects to aid understanding</p> 	<p>Use a number line to show jumps in groups. The number of jumps equal the number of groups</p>  <p>Use a bar model, think of the bar as a whole, split it into the number of groups you are dividing by and work out how many would be in each group.</p> 	$28 \div 7 = 4$ <p>Divide 28 into 7 groups, how many are in each group?</p>
Division within arrays	<p>Link division to multiplication by creating an array and thinking about the number sentence that can be created.</p>  <p>Eg $15 \div 3 = 5$ $5 \times 3 = 15$ $15 \div 5 = 3$ $3 \times 5 = 15$</p>	<p>Draw an array and use lines to split the array into groups to make division and multiplication sentences</p> 	<p>Find the inverse of multiplication and division sentences by creating four linking number sentences</p> $7 \times 4 = 28$ $4 \times 7 = 28$ $28 \div 7 = 4$ $28 \div 4 = 7$
Division with remainders	$14 \div 3 =$		<p>Complete written division and show the remainder using r</p>

Divide objects between groups and see how many are left over



Draw dots and then group them to divide an amount and clearly show a remainder



Tens	Ones
10 10	1 1 1
10 10	1 1 1
10 10	1 1 1
10 10	1 1 1



$$94 \div 4 = 23 \text{ r}2$$

$$29 \div 8 = 3 \text{ REMAINDER } 5$$

↑ ↑ ↑ ↑
 dividend divisor quotient remainder

Short division

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

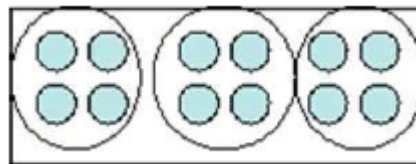
$$96 \div 3$$

	Tens	Units
	3	2
3	<div> <div>10</div> <div>10</div> <div>10</div> </div>	<div> <div>1</div> <div>1</div> </div>



$$42 \div 3 =$$

Children can continue to draw dots or diagrams and divide the numbers into equal groups



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

Begin with divisions that divide equally with no remainder

$$\begin{array}{r} 218 \\ 3 \overline{) 872} \end{array}$$

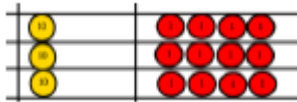
Move onto divisions with a remainder

$$\begin{array}{r} 86 \text{ r } 2 \\ 3 \overline{) 432} \end{array}$$

Start with the biggest place value, we are sharing 40 into 3 groups. We can put 1 ten in each group and we have 1 ten left over



We exchange this ten for 10 ones and then share the ones equally between the groups



We look at how many is in one group and the answer is 14

Finally move into decimal places to divide the total accurately.

$$\begin{array}{r} 14.6 \\ 35 \overline{) 511.0} \\ \underline{35} \\ 16 \\ \underline{15} \\ 11 \\ \underline{10} \\ 10 \\ \underline{10} \\ 0 \end{array}$$

Long division

A remainder
in the ones

$$\begin{array}{r} \text{h t o} \\ 041 \text{ R}1 \\ 4 \overline{) 165} \end{array}$$

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.

$$\begin{array}{r} \text{th h t o} \\ 0400 \text{ R}7 \\ 8 \overline{) 3207} \end{array}$$

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.

$$\begin{array}{r}
 \text{h t o} \\
 061 \\
 4 \overline{) 247} \\
 \underline{-4} \\
 3
 \end{array}$$

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

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

$$\begin{array}{r}
 \text{th h t o} \\
 0402 \\
 4 \overline{) 1609} \\
 \underline{-8} \\
 1
 \end{array}$$

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

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

Long division

A remainder
in the tens

1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.
$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{4} \\ 18 \end{array}$ <p>Two goes into 5 two times, or 5 tens $\div 2 = 2$ whole tens -- but there is a remainder!</p>	$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{-4} \\ 1 \end{array}$ <p>To find it, multiply $2 \times 2 = 4$, write that 4 under the five, and subtract to find the remainder of 1 ten.</p>	$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{-4} \\ 18 \end{array}$ <p>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.</p>

1. Divide.	2. Multiply & subtract.	3. Drop down the next digit.
$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{-4} \\ 18 \end{array}$ <p>Divide 2 into 18. Place 9 into the quotient.</p>	$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{-4} \\ 18 \\ \underline{-18} \\ 0 \end{array}$ <p>Multiply $9 \times 2 = 18$, write that 18 under the 18, and subtract.</p>	$\begin{array}{r} \text{t o} \\ 2 \overline{) 58} \\ \underline{-4} \\ 18 \\ \underline{-18} \\ 0 \end{array}$ <p>The division is over since there are no more digits in the dividend. The quotient is 29.</p>

Long division

A remainder in any of the place values

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

