

Division				
Year 1	Year 2			
Basic to subject specific (Beck's Tiers): share, share equally, one each, two each, group, groups of, lots of, array Generalisations	Basic to subject specific (Beck's Tiers):         group in pairs, 3s 10s etc, equal groups of, divide, ÷, divided by, divided         into, remainder			
<ul> <li>True or false? I can only halve even numbers.</li> <li>Grouping and sharing are different types of problems. Some problems need solving by grouping and some by sharing. Encourage children to practically work out which they are doing.</li> <li>Some Key Questions How many groups of? How many in each group? Share equally into What can do you notice?</li></ul>	<ul> <li>(introducing times tables)</li> <li>An understanding of the more you share between, the less each person will get (e.g. would you prefer to share these grapes between 2 people or 3 people? Why?)</li> <li>Secure understanding of grouping means you count the number of groups you have made. Whereas sharing means you count the number of objects in each group.</li> <li>Some Key Questions</li> <li>How many 10s can you subtract from 60?</li> <li>I think of a number and double it. My answer is 8. What was my number?</li> <li>If 12 x 2 = 24, what is 24 ÷ 2?</li> <li>Questions in the context of money and measures (e.g. how many 10p coins do I need to have 60p?</li> </ul>			
NC: Solve one-step problems involving multiplication and division, by calculating the ar using concrete objects, pictorial representations and arrays with the support of the tea				



	Mental Strategies	Me		
Children should experience regular counting on and back from different numbers in 1s and				
	in multiples of 2, 5 and 10.	Chil		
	Children must have secure counting skills- being able to confidently count in 2s, 5s and 10s.	wor		
	Children should be given opportunities to reason about what they notice in number			
	patterns.			
	They should begin to recognise the number of groups counted to support understanding of	Kno		
	relationship between multiplication and division.			
	As a constant	арр		
	2+2+2+2+2=10 $2\times 5=10$	abs		
	2×S=10 2 multiplied by 5			
	5 pairs			
	5 hops of 2	5		
	0 2 4 6 8 10	2		

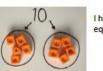
Group AND share small quantities- understanding the difference between the two concepts.

Sharing – 6 sweets are shared between 2 people. How many do they have each?

Sharing using concrete apparatus, pictorial and abstract



Sharing objects into groups



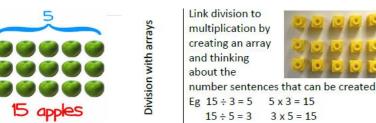
I have 10 cubes, can you share them equally in 2 groups?

#### ental Strategies

nildren should count regularly, on and back, in steps of 2, 3, 5 and 10. nildren who are able to count in twos, threes, fives and tens can use this knowledge to ork out other facts such as  $2 \times 6$ ,  $5 \times 4$ ,  $10 \times 9$ .

now and understand sharing and grouping- introducing children to the  $\div$  sign. nildren should continue to use grouping and sharing for division using practical pparatus, arrays and pictorial representations. Children should use jottings alongside the ostract to show their understanding.





 $5 \times 3 = 15$  $3 \times 5 = 15$ 

 $15 \div 5 = 3$ 

 $15 \div 3 = 5$ 

To recognise the dividend of 15 and the associated division facts such as:  $15 \div 3 = 5$ 

It is essential that children use jottings to draw around their equal groups to show accurate representations of the number sentence

$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	
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 four linking number sentences.



understanding.

have 12 gloves?

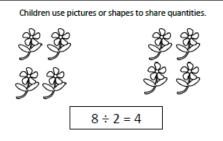
One for you and one for you.

### Oakmeadow Primary School Calculation Policy

They should use objects to group and share amounts to develop understanding of division

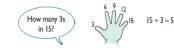
E.g. using counters to find out how many 5's are in 30? How many pairs of gloves if you

in a practical sense. They should use jottings alongside the abstract to show their



Share 9 buns between three people.  $9 \div 3 = 3$  Know and understand sharing and grouping- introducing children to the  $\div$  sign.

Children should continue to use grouping and sharing for division using practical apparatus, arrays and pictorial representations. Children should use jottings alongside the abstract to show their understanding.



15 pencils shared between 3 pots, how many in each pot?

Pat has no more than 20 sweets in a bag.



She counts her sweets in groups of two. She has one left over. Then she counts her sweets in groups of five. She has 2 left over. How many sweets could Pat have? Is there another answer?

Record sharing by using pictorial notation

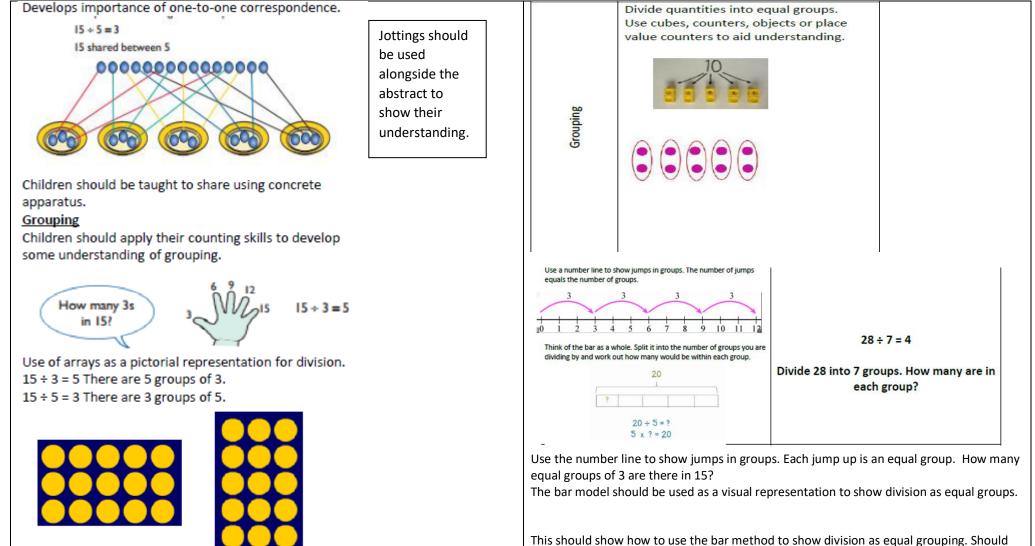
There are 6 cakes and 2 children. How many cakes will they each get?



5 hops in 15. How big is each hop?

Division as grouping: concrete, pictorial and abstract.





reflect the above images.

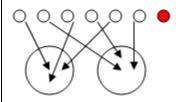
Children should be able to find ½ and ¼ and simple fractions of objects, numbers and quantities.

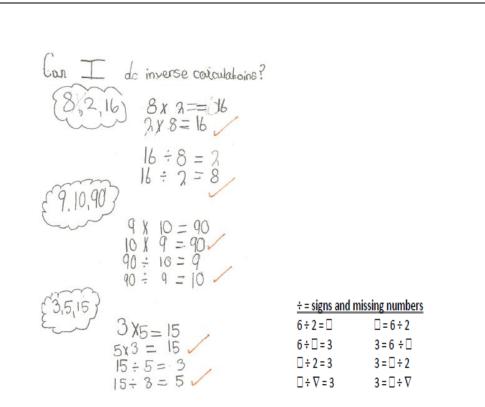


Children should begin to explore finding simple fractions of objects, numbers and quantities.

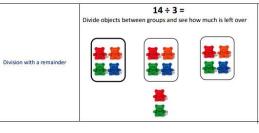
E.g.16 children went to the park at the weekend. Half that number went swimming. How many children went swimming?

*There are 7 cakes and 2 children. How many cakes will they each get?* 'Leftovers' introduced.

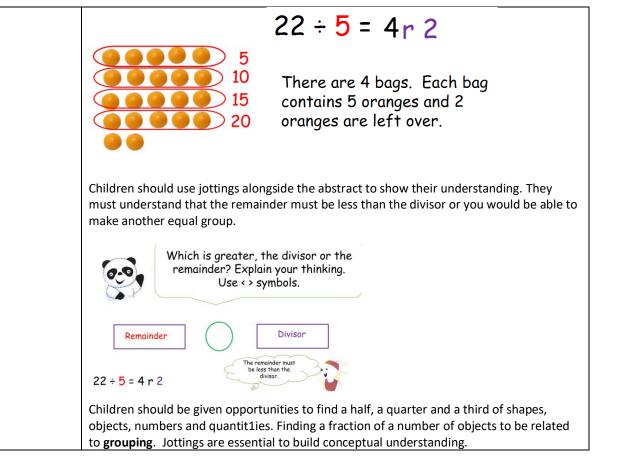




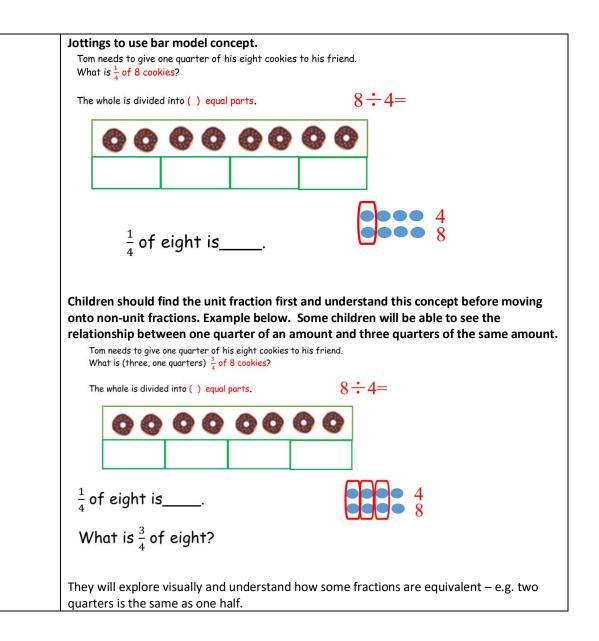
#### Pupils to recognise when a dividend will leave a remainder, for example, $14 \div 3$ .













	24		
8	8	8	
<sup>1</sup> / <sub>2</sub> (half) of 4 = What is the number sentence?	4 ÷	- 2 =	
	4	2	
Half of	4 is equal to 2.		
Double	2 is equal to 4.		
<sup>1</sup> <sub>2</sub> (half) of 50 =			
What is the number sentence?			
		50	



