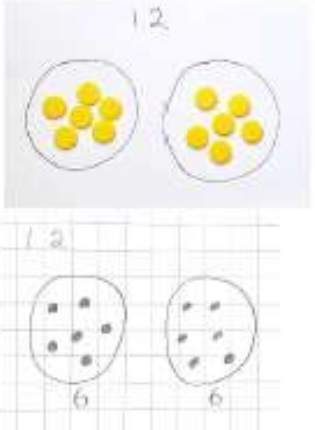
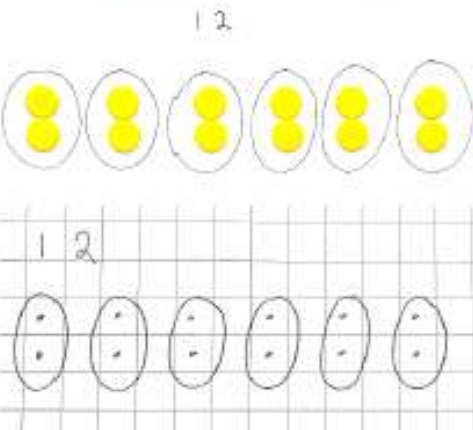
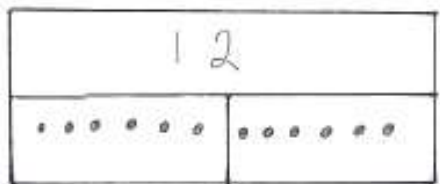


Division

Division – Year 1

<p>Selected National Curriculum Programme of Study Statements</p> <p>Pupils should be taught to:</p> <ul style="list-style-type: none"> count in multiples of twos, fives and tens. solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher. 	<p>The Big Ideas (NCETM)</p> <p>Counting in steps of equal sizes is based on the big idea of 'unitising'; treating a group of, say, five objects as one unit of five.</p> <p>Working with arrays helps pupils to become aware of the commutative property of multiplication, that 2×5 is equivalent to 5×2</p>	
<p>Please note that manipulatives and visual representations may be used alongside more formal recording as appropriate. It is important for pupils to explore structure and understand a concept before developing a more procedural approach, at which point all representations may be used alongside each other.</p>		
Stage 1	Stage 2	End of Year Expectation
<p>Making equal groups – sharing.</p> <p>Concrete objects and pictorial representations, e.g:</p> <p><i>I have 12 sweets and share them between myself and a friend (2 people), how many will we each have?</i></p>  <p>"If I share 12 equally between 2 groups, there will be 6 in each group."</p>	<p>Making equal groups – grouping.</p> <p>Concrete objects and pictorial representations, e.g:</p> <p><i>I have 12 cookies to put in bags.</i> <i>If I put 2 in each bag how many bags will I need?</i></p>  <p>"There are 12 altogether. There are 6 equal groups of 2."</p>	<p>Making equal groups (including finding half of a quantity).</p> <p>Bar models, e.g:</p> <p><i>I had 12 grapes and I ate half. How many are left?</i></p>  <p>"There are 12 altogether. They are shared into 2 equal groups. There are 6 in each group. Each group is half of the whole. I know that there are 6 grapes left."</p>

Division

Division – Year 2

Selected National Curriculum Programme of Study Statements

Pupils should be taught to:

- count in steps of two, three, and five from 0, and in tens from any number, forward and backward.
- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.
- show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.
- solve problems involving division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

The Big Idea (NCETM)

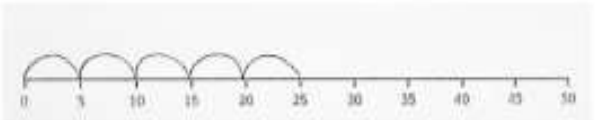




It is important that pupils both commit multiplication facts to memory and also develop an understanding of conceptual relationships. This will aid them in using known facts to work out unknown facts and in solving problems.

Pupils should look for and recognise patterns within tables and connections between them (e.g. $5\times$ is half of $10\times$).

Pupils should recognise multiplication and division as inverse operations and use this knowledge to solve problems. They should also recognise division as both grouping and sharing.

The recognition of pattern in multiplication helps pupils commit facts to memory, for example doubling twice is the same as multiplying by four, or halving a multiple of ten gives you the related multiple of five

Please note that manipulatives and visual representations may be used alongside more formal recording as appropriate. It is important for pupils to explore structure and understand a concept before developing a more procedural approach, at which point all representations may be used alongside each other.

Stage 1	Stage 2	End of Year Expectation
<p>Count on in steps of two, three and five from 0. Skip counting on a structured number line, e.g:</p> <p style="text-align: center;">$25 \div 5 = \square$</p>  <p style="text-align: center;">$25 \div 5 = 6$</p> <p>Bar model representation:</p> 	<p>Count on in steps of two, three and five from 0. Skip counting on an unstructured number line, e.g:</p> <p style="text-align: center;">$25 \div 5 = \square$</p>  <p style="text-align: center;">$25 \div 5 = 6$</p> <p>Bar model representation:</p> 	<p>Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables. Number line or bar model to 'prove it'</p> <p>See two 40 coins. He shares them equally between 4 party bags. How many coins does he put in each bag?</p>  <p><small>*Contains KS1 SATs materials licensed under Open Government Licence v3.0 Open Government Licence (nationalarchives.gov.uk)</small></p> <p>"If I know that $4 \times 10 = 40$, then I know $40 \div 4 = 10$".</p> 