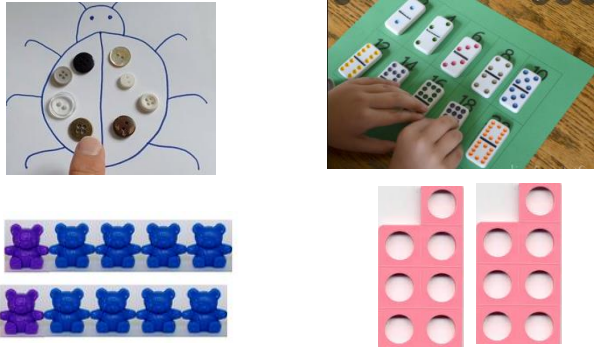
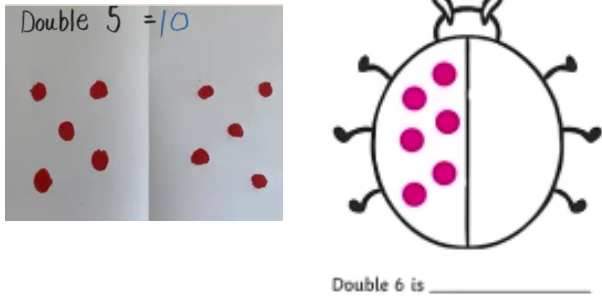
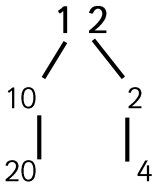
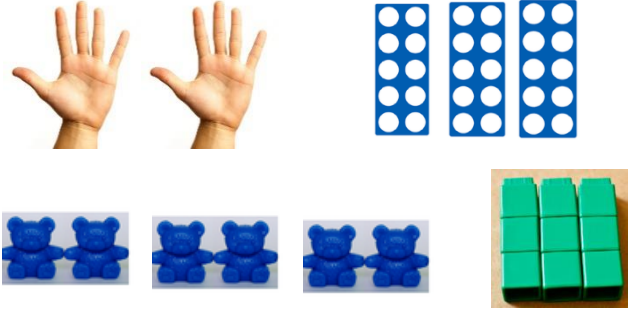
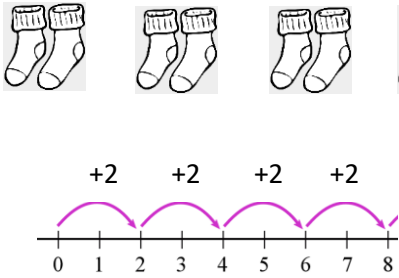


Strategies	Concrete	Pictorial	Abstract
<p><b>Doubling-</b> Pupils should be given opportunities to develop fluent mental recall of doubles and in KS1 relate this to the 2 x table.</p>	<p>Understanding that double means '2 lots of' or '2 groups of' the SAME number</p> 	<p>Double 5 is 10</p>  <p>Double 6 is _____</p>	<p>Double 5 is _____</p> <p><math>5 + 5 =</math></p> <p>Doubling 2-digit numbers by partitioning first</p>  <p><math>20 + 4 = 24</math></p>
<p>Counting in multiples of 2,3, 5,10</p> <p>Children skip count, gaining an idea of the concept of 'groups of.'</p>	 <p>3 groups of 2 is 6</p>	<p>Use a number line or pictorial representations to support counting in multiples of 2,3,5,10</p>  <p>4 groups of 2 is 8</p>	<p>Complete the number sequences (going forwards and backwards):</p> <p>5, 10, ____, ____, 25, ____, 35, 40, ____</p> <p>____, ____, 6, 8, ____, 12, ____</p> <p>90, 80, ____, 60, ____, 40, 30</p> <p>If you count in steps of 5, will you say the number 43? How do you know? Prove it</p>

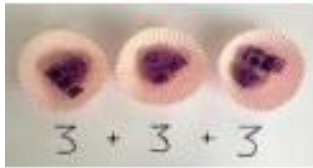
Repeated addition



$$2 + 2 + 2 = 6$$



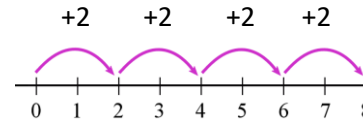
$$5 + 5 + 5 = 15$$



$$3 + 3 + 3 = 9$$

$$3 + 3 + 3$$

Opportunities for children to begin to recognise the relationship between repeated addition and multiplication



$$2 + 2 + 2 + 2 = 8$$

$$4 \text{ groups of } 2 = 8$$

$$4 \times 2 = 8$$

There are 3 children. Miss Greenway gives each child 5 golden stars. How many golden stars does Miss Greenway give out altogether?



$$5 + 5 + 5 = 15$$

$$3 \times 5 = 15$$

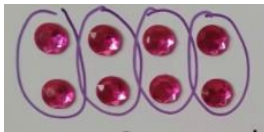
Write addition or multiplication sentences to describe objects and pictures.



$$2 + 2 + 2 + 2 + 2 = 10$$

$$5 \times 2 = 10$$

Arrays-  
Showing  
commutative  
multiplication  
(multiplication is  
commutative, the  
order of the  
multiplication  
does not affect  
the answer.)



$$4 \times 2 = 8$$

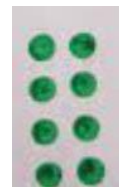
$$2 \times 4 = 8$$



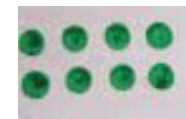
$$4 \times 5 = 20$$

$$5 \times 4 = 20$$

Draw/ paint arrays in different rotations to find commutative multiplication sentences.



$$2 \times 4 = 8$$



$$4 \times 2 = 8$$

One bag has 5 apples in it.  
I have 4 bags, how many apples are there altogether?

$$5 + 5 + 5 + 5 = 20$$

$$4 \times 5 = 20$$

There are 6 bicycles. How many wheels are there altogether?

$$2 + 2 + 2 + 2 + 2 + 2 = 12$$

$$6 \times 2 = 12$$