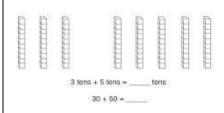
Addition to be taught alongside each other Subtraction

Children will start by adding in multiples of 10 using concrete apparatus, such as base 10, number

strings, numicom. cubes and place value counters.

50 = 10 + 10 + 10 + 10 + 10

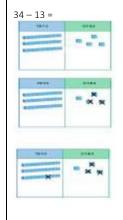




Children will continue to add multiples of 10 to a 2-digit number, noticing the ones stay the same and the tens will change.

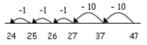


When subtracting, children will be taught to partition the second number. Children will use dienes and pictorial illustrations to demonstrate this.



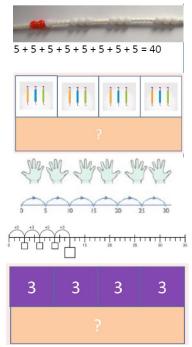


Children will then represent this on a number line. 47 - 23 =



Multiplication to be taught alongside each other Division

Children will develop their understanding of multiplication starting with repeated addition.



Children will explore this in many concreate and pictorial ways. Children will also recite multiples of 2,3,4, 5 and 10 aloud.

Children will understand that multiplication is commutative, the order of multiplication does not affect the answer, and will explore different methods to represent this, for example using arrays.

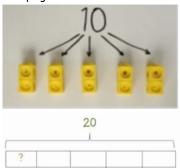
Children will start division by sharing concreate objects then move onto grouping objects.

Sharing:





Grouping:

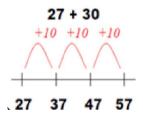


This is where children make equal groups.

Children will use repeated subtraction, using concreate apparatus and number lines for support.

15= 5 - 5 - 5

Children will represent adding a multiple of 10 to a 2-digit number on a range of number lines. Blank number lines and number lines in steps of one, fives and tens.

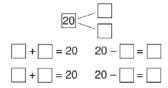


Children will explore make different numbers using

the part, whole model.

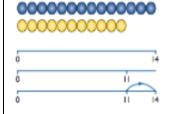


They will use this model to explore the concept of the inverse relationship of addition and subtraction and use this to check calculations.



Counting on

It is important that children experience finding the difference between two numbers by counting on.



It is important that difference is modelled

using suitable equipment, such as two bead

should experience finding the difference in

strings, or two Numicon plates. Children

a range of contexts including height e.g.

Children will also explore counting on by using

34 - 28

growth of two seedlings.

'counting on' to find 'difference'

number lines.

The difference $4 \times 3 = 12$ and 4×3 .



00000

 $3 \times 4 = 12$

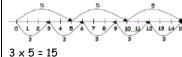
$$5 + 5 + 5 = 15$$

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

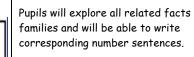
$$5 \times 3 = 15$$

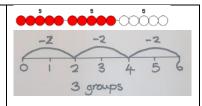
$$3 \times 5 = 15$$

Children will be able to show it on a number line.



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



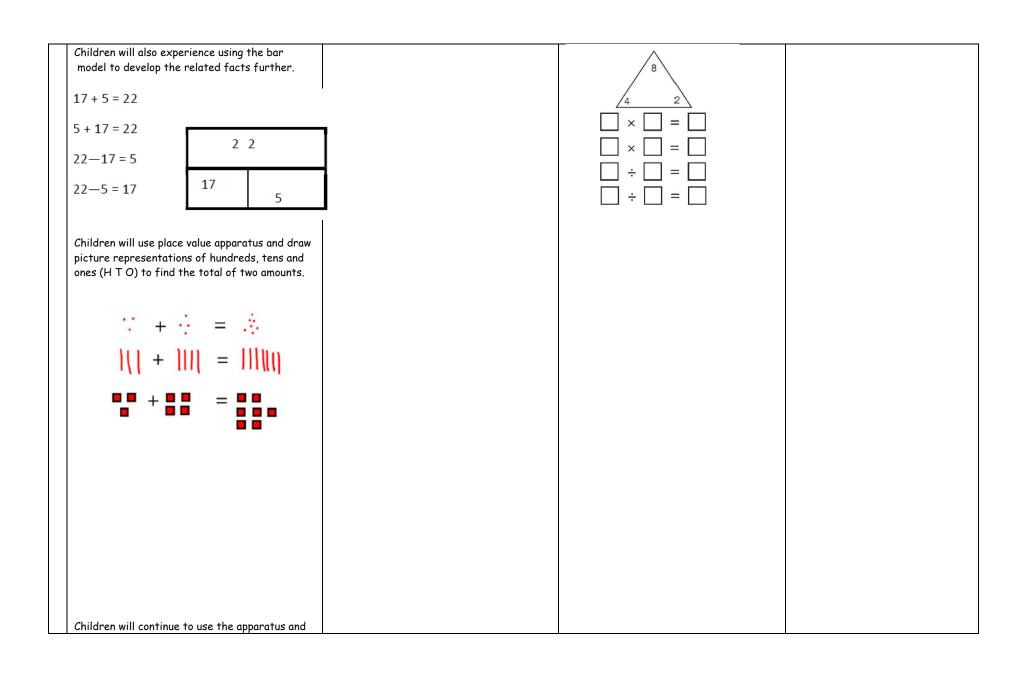


Children will link division to multiplication by creating arrays and thinking about the number sentences that can be created.

Eg
$$15 \div 3 = 5$$
 $5 \times 3 = 15$

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

Children will be encouraged to use their knowledge of number fact families to build on their fluency.



number lines to bridge to a multiple of 10 then		
add the remainder.		
6 + 5 = 10 + 1		
6 + 5 = 10 + 1		
47 + 25 =		
+20 +5 Or +20 +3 +2		
47 67 72 47 67 70 72		
Children will explore adding three 1-digits		
numbers together by combining to make/bridge to 10 first.		
10 10 (113).		
+ + +		
Regroup and draw representation.		
ه هاهم اهم		
+ = 15		
1 4 4 - 13		
(4)+7+(6)=10+7		
10		
= [17]		
	1	1