### Stage 4

Children need to learn the 9, 11, 6, 7 and 12 times table at this stage.

Use resources and times table tricks so that children become confident with recalling facts quickly.



#### 9 x table trick

- 1. Starling from your left little finger, count across until you get to the number you are multiplying by 9. Above it is 8.

  2. Each little finger on the left of the curled finger represents 10.
- 3. Each singer on the right of the curled singer represents 1. So  $8 \times 9 = 72$

Children need to apply their knowledge of times tables by multiplying 2 digit numbers by 2 digit numbers using the grid method as shown below.

	60	
30	1800	60
8	480	16

38 x 62 = 1800 + 60 + 480 + 16 38 x 62 = 2356

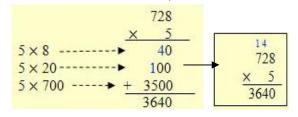


### Stage 5/6

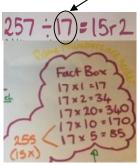
Help children to apply their knowledge of times tables by multiplying I and 2 digit numbers by 3 digit numbers as shown in the grid method below.

 $75 \times 429 = 28000 + 1400 + 630 + 2000 + 100 + 45 = 32,175$  $75 \times 429 = 32,175$ 

Once children are confident with the grid method, they can move on to the short multiplication method.



Use fact boxes (alongside number lines if needed) for 2/3 digit divisors (the number you are dividing by



Bus stop method- for single digit divisors (the number you are



 $5 \div 3 = 1$  with a remainder of 2. Write the 2 beside the 3. You now have 23.  $23 \div 3 = 7$  with a remainder of 2. Write the remainder by the 4. You now have 24.

 $24 \div 3 = 8$  with no remainder The answer is 178.



# Calculation Policy





## Multiplication and Divisic

This policy is designed to help parents/guardic support their children with multiplication and division homework. As children are taught according to their ability and not their age, please ask your child's teacher what stage yo child is currently working at. We teach children methods that build up on their existing skills a understanding so please make sure children on their sout stages as this could lead to gaps their learning/ understanding. If you are unsuabout any of the methods please speak to you child's class teacher.



### Early Years

Activities should all be practical at this stage.

Provide opportunities for children to halve and double using lots of different objects. For example, food, toys, pencils, coins, pegs.





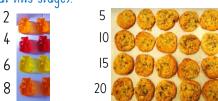
Emphasise the link between doubling and halving. Half of 4 is 2 so double 2 is 4.

Encourage organising, reorganising and sorting objects in to lines, so that children can count efficiently.

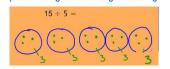
### Stage 1



Arrange pictures and objects into rows and columns. Use the rows or columns to practise counting in steps of 10, 5 and 2. (Children only need to count in steps of 10, 5 and 2 at this stage).



Provide opportunities for children to share objects practically and using drawings.





### Stage 2

Children need to learn the 10, 5, 2 and 3 times table at this stage.

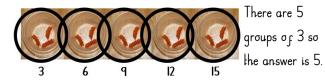
Find related X and  $\div$  facts by linking the two methods together. If we work out the answer to  $3 \times 10 = 30$  by counting in steps of 10 then we also know that we had to count 3 'lots' of 10 or 3 rows of 10. So  $30 \div 10 = 3$ .



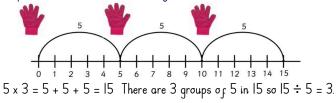
Link division to grouping so that it reinforces children's times tables knowledge by encouraging them to count in steps.

For example: 15÷3 - 'How many groups of 3 will fit in to 15?'

Use objects to support children with counting in groups and understanding the method.



Once children are able to count in steps of 10, 5, 2 and 3, number lines can be introduced as another method for solving x and  $\div$  problems. Using resources alongside number lines will improve children's understanding.



### Stage 3

Children need to learn the 4 and 8 times table c stage.

Continue to use number lines for multiplication and a Use resources to improve understanding.

$$3 \times 4 = 4 + 4 + 4 = 12$$

There are 3 groups of 4 in 12 so  $12 \div 4 =$ 



Once children are confident with their times tables, lines can then be used alongside times table fact bosupport children in solving division problems.



Children will need to a

2×3=6
5×3=15
10×3=30

Children will need to a
3s to work out how ma
5×3=15
help them to do this e

Children need to apply their times table knowledge by multiplying single digit numbers with 2 and 3 digit nu To do this they need to split (partition) numbers in to ones or hundreds, tens and ones, multiply the number then add the parts to find the answer. For example:

