

Weston Favell CE Primary School

Calculation Guide

Year 4









This calculation guide will demonstrate the written calculation strategies that are covered for addition, subtraction, multiplication and division.

Practising these will help in preparation for Year 5 and beyond!

If you have any questions or need any further support, please ask your class teacher and they will be happy to help you.







		189
Column		+ 4 7
Method	-	236
		11





Subtraction

17 - 9 = 8minuend - subtrahend = difference

(Finding the Difference)

Example questions:

147 – 39 (exchange required)



	147 – 39 =					
Expanded Method: With Exchange	30 100 4 0 17 - 30 9 100 + 0 + 8	Vocabulary used at school to show this is strategy is: 'exchange'. We cannot take 9 from 7 in this				
	= 108	method. To solve this, we have altered how we partition the 40 and 7. Instead of 40 we exchange so we have 30 and 17. We now have 17 so we are able to take our 9 away.				
	147 – 39 =	In class, this will be explored practically with equipment first and then completed in the abstract way so children can understand where the numbers come from.				
Column Method	3					
with Exchange	1 ¥ <u>1</u> 7					
	- 3 9					
	108					





Multiplication



Example question: 42 x 7 = 714

The Grid Method

X	40	2		
7	(40 x 7) 280	(2 x 7) 14		

280 + 14 = 294





Division



Example question: 324 ÷ 6 = 54







Short Division







Times Tables

In Year Four children need to learn all of their time tables up to 12 x 12 facts alongside their corresponding division facts e.g. $3 \times 2 = 6 \text{ so } 6 \div 2 = 3$.

Children need to learn the times tables highlighted in the table below in order:

- 0 x 2 = 0
- 1 x 2 = 2
- 2 x 2 = 4 etc.

Then they need to be able to answer in any order e.g. $4 \times 2 = 8$, $12 \times 2 = 24$, $2 \times 2 = 4$

Focus on the commutativity of the times table when practising at home. If I know 3 x 5 = 15, I also know 5 x 3 is 15! This is represented in the table below:

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1x1											
2	2x1	2x2						Facts taug	ht in Year 4			
3	3x1	3x2	3x3									
4	4x1	4x2	4x3	4x4								
5	5x1	5x2	5x3	5x4	5x5							
6	6x1	6x2	6x3	6x4	6x5	6x6						
7	7x1	7x2	7x3	7x4	7x5	7x6	7x7					
8	8x1	8x2	8x3	8x4	8x5	8x6	8x7	8x8				
9	9x1	9x2	9x3	9x4	9x5	9x6	9x7	9x8	9x9			
10	10x1	10x2	10x3	10x4	10x5	10x6	10x7	10x8	10x9	10x10		
11	11x1	11x2	11x3	11x4	11x5	11x6	11x7	11x8	11x9	11x10	11x11	
12	12x1	12x2	12x3	12x4	12x5	12x6	12x7	12x8	12x9	12x10	12x11	12x12



