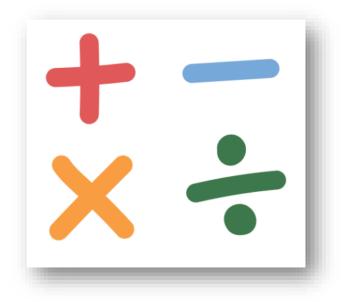


Weston Favell CE Primary School

Calculation Guide

Year 5









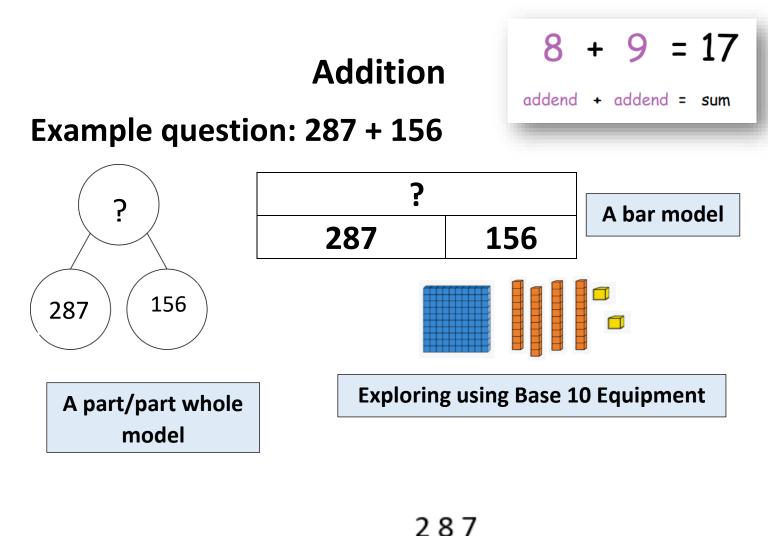
This calculation guide will demonstrate the written calculation strategies that are covered for addition, subtraction, multiplication and division.

Practising these will help in preparation for Year 6 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.





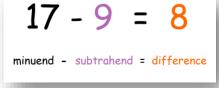


	207
Column	+156
Method	443
	11





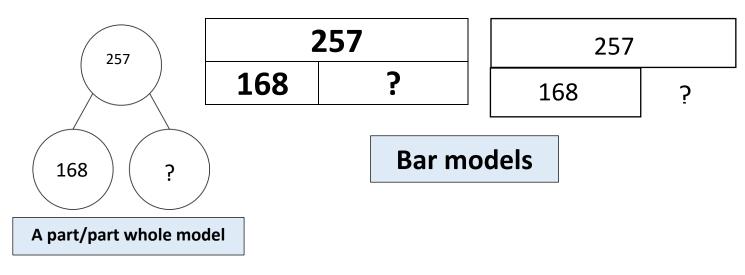
Subtraction



(Finding the Difference)

Example questions:

257 – 168 (exchange required)

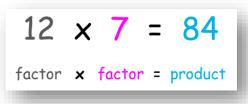


	1 14	In this example, we have had to		
Column Method	-2-5 17	make two exchanges to partition the numbers so we can subtract with ease.		
with Exchange	-168	For further information on how we		
	089	exchange, please refer to the Year 4 booklet.		





Multiplication

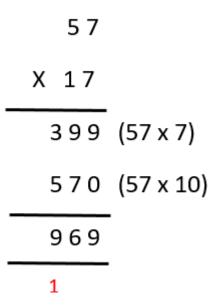


Example question: 57 x 17 = 969

The Grid Method

X	50	7		570
10	(50 x 10) 500	(7 x 10) 70	= 570	+ 3 9 9
7	(50 x 7) 350	(7 x 7) 49	= 399	969

Long Multiplication





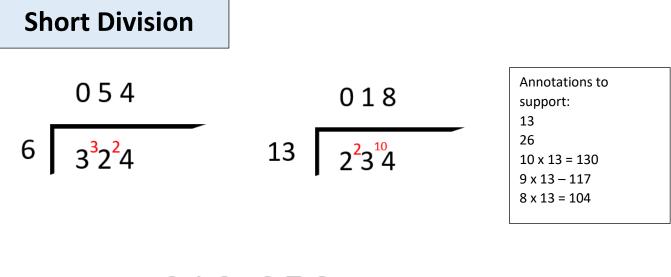


Division



Example questions:

- $324 \div 6 = 54$ (1-digit divisor)
- 334 \div 13 (2-digit divisor)
- $\textbf{235} \div \textbf{13} = \textbf{18.076}$ (Quotient up to 3 decimal places)



$$\begin{array}{c} 0 \ 1 \ 8 \ . \ 0 \ 7 \ 6 \\ 13 \\ 2^{2} 3 \begin{array}{c} 5 \\ . \\ 0 \end{array} \begin{array}{c} 0 \\ 1 \end{array} \begin{array}{c} 0 \\ 1 \end{array}$$

Annotations to						
support:						
7 x 13 = 91						
6 x 13 = 78						





Times Tables

In Year Five, children need to retain and apply all of their time tables facts up to 12 x 12 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 5×3 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						No new facts in Year 5				
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



