

Hígh Hesket CE Prímary School Wrítten maths calculatíons overvíew

	Foundation	Year 1	Year 2	Year 3	Year 4	Year 5 Year 6
Addition	Combining and	Using Base 10 to add	Using base 10 to	Expanded column	Compact column	Compact column addition to
	counting different	TU and U.	combine tens and units,	addition.	addition.	include decimals and multiple
+	objects.		including exchanging.	100→10→7		numbers.
Put together			56	<u>100→40→6</u>	5347	
Add			<u>+ 23</u>	200→50→13	+2286	12.36 21.72
Altogether	◎ ◎ ◎	13 + 5 = 18	<u>79</u>		<u>+1495</u>	<u>+23.68</u> 4.634
More than				24	9128	<u>36.04</u> 140.001
Total	3+4 = 7		·	<u>+17</u>	1 21	1 1
Sum			Expanded column	11		
Increase			addition (i.e.	<u>30</u>		
Plus			partitioning numbers to	41		
And			add)			
			60 → 7	Using Base 10 to		
			$20 \rightarrow 4$	support compact		
			80 →11 = 91	column addition.		
				58		
				+ <u>38</u> <u>94</u> 		
Subtra-	Using real life	Using Base 10 or	Using Base 10 to	Using Base 10 to	Using Base 10 to	Compact method of
	objects to take	number lines to	subtract with some	support expanded	support expanded	decomposition.
ction	away and count	count how many left	exchanging.	vertical method.	vertical method	
-	how many left.			80→9	including	4 15 1
Take away				- <u>50→7</u>	exchanging.	56.29
Subtract	>6 00000		Number lines	30→2 = 32		<u>-37.55</u> 18.74
Minus					Compact column	18.74
Difference	7-2 = 5	18 – 5 = 13	27-12 = 15		subtraction.	7 14 1
between				Number lines.	7 1 2 \$ 3	850.146
Distance between					2φ3 - 57	-372.033
Less than			15 25 26 27	112 – 36 +4 + 60 +12	226	478.113
Reduce				+4 +60 +12	220	
Fewer						
Decrease				36 40 100 112		



High Hesket CE Primary School Written maths calculations overview

Multipli-	Making and	Making and drawing	Using repeated	Using arrays to support	Grid multiplication.	Extended grid method.
-	drawing groups of	groups of real life	addition.	grid multiplication.	X 100 50 2	x 20 7
cation	real life objects.	objects with	©©© ©©© ©©©		3 300 150 6	40 800 280
x		matching number	3 + 3 + 3 = 9	X 10 4		6 120 42
	©© ©©	sentences.		6 60 24	Expanded vertical	
Double	☺ ☺		Making and describing		method.	Compact vertical method (xU and
Groups of			arrays. ⊙⊝⊝⊝⊝	Number lines		x TU)
Lots of				X 10 x 4	152	
Multiply Product		3 x 3 = 9	00000		<u>X 3</u>	234
Multiple		3 × 3 = 3	3 x 5 = 15	\(\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tetx{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\\\ \ti}}\\ \text{\text{\text{\text{\text{\text{\text{\text{\tin}}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\}\tittt{\text{\text{\text{\text{\text{\text{\text{\text{\texi}}\\ \tittt{\text{\texit{\text{\texi}\text{\texi}\til\titt{\text{\ti}\}\tittt{\text{\texi}\tittt{\text{\texi}\texittt{\tex	6	<u>x 15</u>
Times			5 x 3 = 15	0 60 84	150	1170
Square			5+5+5= 15		<u>300</u> 456	<u>2340</u> 3510
			3+3+3+3+3 = 15		430	3310
					Compact method	
			Number lines		(xU)	
			4 x 7 = 28		(1.0)	
			0 4 8 12 16 20 24 28			
Division	Sharing out real	Sharing out real	Repeated subtraction	Making links to times	Chunking method.	Chunking with larger numbers.
÷	objects in to	objects in to groups	including remainders.	tables facts.	4 48	
•	groups.	including the	©©© ©©© ©©© 9÷3 = 3		<u>- 40</u> (10 x)	15 432
Halve	 © © © ©	concept of remainders as ones	973 = 3	Using number lines to	8 (2x)	<u>-300</u> (x 20) 132
Divide	00 00	'left over'.	Using number lines to	count in larger groups. 10 groups 2 groups	<u>- 8</u>	- 120 (x8)
Share		leit over .	count in groups.	20 810 410	U	12 (x8)
Groups of		9 ÷ 2 =	28 ÷ 4 = 7			12
Lots of		00 00 00 00		0 40 48		Compact division method to be
Factor		©				used when appropriate.
			0 4 8 12 16 20 24 28			088r4
						9 7 ⁷ 9 ⁷ 6

N.B. Please note that children should be moved on to the next stage in the calculations whenever ready. Children who are secure in a particular calculation method should be taught the next stage regardless of year group. Similarly, children who are struggling at a particular stage may need to revisit the stage before to help secure the earlier method first. The methods above are not exhaustive and other methods may be used if and when appropriate.