










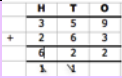
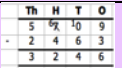


Maths Target Sheet – Stage 4																																																		
WTS (4.0 - 4.2)		EXS (4.3 - 4.4)		GDS (4.5)																																														
Big Ideas			Connections																																															
*2a. I know the column value and quantity value of digits in ThHTO (4-digit numbers)		*2b. I can order and compare 4-digit numbers (using < & >)		2c. I can identify, represent and estimate numbers using different representations <i>e.g. Dienes</i>																																														
				21b. I can compare lengths recorded in different units <i>e.g. 1.24m > 65cm</i>																																														
				22w. I can compare mass recorded in different units <i>e.g. 1.24kg > 650kg</i>																																														
				22s. I can compare capacity recorded in different units <i>e.g. 1.5l < 1600ml</i>																																														
				*14a. I can multiply and divide 2-digit numbers by 10																																														
				*14b. I can multiply and divide 3-digit numbers by 10																																														
*3a. I can find 1000 more than a given number		*3b. I can find 1000 less than a given number		3c. I know that the numeral system changed to include the concept of zero and place value and is built from 10 digits																																														
				*14a. I can multiply and divide 2-digit numbers by 10																																														
				*14b. I can multiply and divide 3-digit numbers by 10																																														
*4a. I can count backwards through zero <i>e.g. 3, 2, 1, 0, -1, -2, -3, -4</i>		4b. I can count backwards through zero to include negative numbers		4c. I can identify, represent and estimate numbers using different representations <i>e.g. Dienes</i>																																														
*5a. I can round any number to the nearest 10, 100 and 1000		5b. I can use rounding to help estimate the answer to ThHTO+ThHTO																																																
6a. I can choose the most efficient strategy to add and subtract mentally (partitioning  , doubles/near doubles  , bridging  , friendly numbers  , adjusting )		6b. I can apply the most efficient strategy to add and subtract mentally.		6c. I can justify my strategy to add and subtract.																																														
*7a. I can add 4-digit numbers using compact addition <table><tr><td></td><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td>2</td><td>3</td><td>2</td><td>9</td></tr><tr><td>+</td><td>4</td><td>7</td><td>6</td><td>3</td></tr><tr><td></td><td>5</td><td>0</td><td>9</td><td>2</td></tr><tr><td></td><td>1</td><td></td><td></td><td></td></tr></table>		Th	H	T	O		2	3	2	9	+	4	7	6	3		5	0	9	2		1					*7b. I can add ThHTO and ThHTO using compact addition (with two exchanges) <table><tr><td></td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td>3</td><td>5</td><td>9</td></tr><tr><td>+</td><td>2</td><td>6</td><td>3</td></tr><tr><td></td><td>6</td><td>2</td><td>2</td></tr><tr><td></td><td>1</td><td></td><td></td></tr></table>		H	T	O		3	5	9	+	2	6	3		6	2	2		1				7c. I can use the inverse to check answers to a subtraction calculation	
		Th	H	T	O																																													
		2	3	2	9																																													
+	4	7	6	3																																														
	5	0	9	2																																														
	1																																																	
	H	T	O																																															
	3	5	9																																															
+	2	6	3																																															
	6	2	2																																															
	1																																																	
7d. I can use alternative methods to check answers to addition calculations																																																		
7e. I can use calculation methods with length, mass and capacity																																																		
*8a. I can subtract TO and TO using decomposition (with no exchange)		*8b. I can subtract 4-digit numbers using decomposition (with exchanges) <table><tr><td></td><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td>5</td><td>9</td><td>10</td><td>9</td></tr><tr><td>-</td><td>2</td><td>4</td><td>6</td><td>3</td></tr><tr><td></td><td>3</td><td>2</td><td>4</td><td>6</td></tr></table>		Th	H	T	O		5	9	10	9	-	2	4	6	3		3	2	4	6		8c. I can use calculation methods with length, mass and capacity																										
	Th	H	T	O																																														
	5	9	10	9																																														
-	2	4	6	3																																														
	3	2	4	6																																														
*9a. I can solve two-step problems involving addition		*9b. I can solve two-step problems involving subtraction		9c. I can use calculation methods with length, mass and capacity																																														
10a. I can choose the most efficient strategy to add and subtract mental vs. written.		10b. I can apply the most efficient strategy to add and subtract mental vs. written.		10c. I can use calculation methods with length, mass and capacity																																														
				*5a. I can round any number to the nearest 10, 100 and 1000																																														
				*3b. I can find 1000 less than a given number																																														
				6a. I can choose the most efficient strategy to add and subtract mentally (partitioning  , doubles/near doubles  , bridging  , friendly numbers  , adjusting )																																														
11a. I can choose and apply the most efficient strategy to multiply and divide.		11b. I can justify my strategy to multiply and divide.		*11c. I can partition numbers to help solve TO x O mentally <i>e.g. 39 x 6 = (30x6) + (9x6) [Distributive Law]</i>																																														
				11d. I can solve problems involving converting minutes to seconds																																														
				11e. I can solve problems involving converting years to months																																														
				11f. I can solve problems involving converting weeks to days																																														
				11g. I can use calculation methods with length, mass and capacity																																														
*12a. I can use short multiplication up to HTO x O <table><tr><td></td><td>Th</td><td>H</td><td>T</td><td>O</td></tr><tr><td></td><td></td><td>3</td><td>4</td><td>2</td></tr><tr><td>x</td><td></td><td></td><td></td><td>7</td></tr><tr><td></td><td>2</td><td>3</td><td>9</td><td>4</td></tr><tr><td></td><td>2</td><td>1</td><td></td><td></td></tr></table>		Th	H	T	O			3	4	2	x				7		2	3	9	4		2	1				12b. I can solve integer scaling problems		12c. I can use calculation methods with length, mass and capacity																					
		Th	H	T	O																																													
		3	4	2																																														
x				7																																														
	2	3	9	4																																														
	2	1																																																
12d. I can count in 6s, 7s and 9s from 0																																																		
*13a. I can solve TO ÷ O using multiplication		13b. I can identify the quotient as the maximum number of groups and can explain remainders		13c. I can use calculation methods with length, mass and capacity																																														
*14a. I can multiply and divide 2-digit numbers by 10		*14b. I can multiply and divide 3-digit numbers by 10		*14c. I can convert between centimetres and metres (multiply and divide by 100)																																														
				*14d. I can convert between millilitres and litres (multiply and divide by 1000)																																														
				*14e. I can convert between grams and kilograms (multiply and divide by 1000)																																														
*15a. I can solve two-step problems involving multiplication		*15b. I can solve two-step problems involving division		*15c. I can select appropriate operations and methods when solving multiplication & division problems																																														
				15d. I recognise and use factor pairs in mental calculations <i>e.g. 12 = 1 x 12, 2 x 6, 3 x 4</i>																																														

				7e. I can use calculation methods with length, mass and capacity	
*16a. I can show families of common equivalent fractions using diagrams <i>e.g.</i> $\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$ 		16b. I know these fraction-decimal equivalents: $\frac{1}{2} = 0.5$ $\frac{1}{4} = 0.25$ $\frac{3}{4} = 0.75$		16c. I can show hundredths on a place value chart and give an example using measures or money	
				*16d. I can count on in hundredths	
				*16e. I can count back in hundredths	
*17a. I can add fractions with the same denominator beyond 1 <i>e.g.</i> $\frac{3}{4} + \frac{5}{4} = \frac{8}{4} = 2$		17b. I can subtract fractions with the same denominator beyond 1 <i>e.g.</i> $\frac{9}{4} - \frac{6}{4} = \frac{3}{4}$			
*18a. I can write decimal equivalents for any number of tenths <i>e.g.</i> $\frac{4}{10} = 0.4$		*18b. I can write decimal equivalents for any number of hundredths <i>e.g.</i> $\frac{43}{100} = 0.43$ describing them as tenths and as hundredths (dual counting)		16c. I can show hundredths on a place value chart and give an example using measures or money	
*19a. I can find more non-unit fractions of sets of objects <i>e.g.</i> $\frac{2}{3}, \frac{3}{4}, \frac{4}{10}$		*19b. I can find non-unit fractions of numbers (where there are whole number answers) <i>e.g.</i> $\frac{4}{6}$ of 24, $\frac{3}{7}$ of 21, $\frac{4}{10}$ of 40		19c. I can find unit fractions of a set of objects <i>e.g.</i> $\frac{1}{6}$ of 42, $\frac{1}{9}$ of 45	
20a. I can compare decimal numbers with 2dp (using < & >) <i>e.g.</i> 4.55 > 4.45		*20b. I can round decimals with 1dp to the nearest whole number e.g. 3.2 » 3, 4.6 » 5		*20c. I can solve simple measure and money problems involving numbers to 2dp	
				*5a. I can round any number to the nearest 10, 100 and 1000	
21a. I can estimate length, mass and capacity		21b. I can measure and calculate the perimeter of a rectangle in centimetres and metres		6a. I can choose the most efficient strategy to add and subtract mentally.	
				6b. I can apply the most efficient strategy to add and subtract mentally.	
*22a. I can find the area of shapes made from rectangles, by counting squares		22b. I am beginning to find the area of rectangles using my times table facts		*22c. I can find the area of a rectangle by counting squares	
				23c. I can compare the area of rectangles by overlaying	
23a. I can convert time between analogue and digital 12- and 24-hour clocks		23b. I can solve problems involving converting from hours to minutes		11a. I can choose and apply the most efficient strategy to multiply and divide.	
				11b. I can justify my strategy to multiply and divide	
				*13a. I can solve TO ÷ O using multiplication	
24a. I can identify a range of angles by their size		24b. I can order a range of angles by their size			
25a. I can find acute angles (less than 90°) in polygons		25b. I can find obtuse angles (greater than 90°) in polygons			
*26a. I can complete a simple shape from its line of symmetry		26b. I can find lines of symmetry in regular and irregular polygons		*26c. I can compare polygons based on their properties	
				*26d. I can compare quadrilaterals and triangles based on their properties	
				*26e. I can classify polygons based on their properties	
*27a. I can describe positions on a grid as co-ordinates		27b. I can plot co-ordinates and use them to draw polygons			
*28a. I can describe positions on a grid as co-ordinates		28b. I can plot co-ordinates and use them to draw polygons		28c. I can describe movements between positions as translations of a given unit to the left/right and up/down	
*29a. I can read and interpret bar charts		*29b. I can read and interpret time graphs		10b. I can apply the most efficient strategy to add and subtract mental vs. written.	
*30a. I can present data in bar charts and time graphs		*30b. I can compare data in bar charts, pictograms, tables and other graphs		10b. I can apply the most efficient strategy to add and subtract mental vs. written.	
*31a. I can solve sum and difference problems using data in bar charts, pictograms, tables and other graphs				10b. I can apply the most efficient strategy to add and subtract mental vs. written.	

Fluency					
32. I can read Roman numerals to 100 (I, V, X, L, C)		6a. I can choose the most efficient strategy to add and subtract mentally (partitioning, doubles/near doubles \parallel , bridging \frown , friendly numbers \circ , adjusting \updownarrow)		*9b. I can solve two-step problems involving subtraction	
33. I can count in 25s and 1000s from zero		*7b. I can add ThHTO and ThHTO using compact addition (with two exchanges) 		*15a. I can solve two-step problems involving multiplication	
34. I can count in 6s, 7s and 9s from 0		*8b. I can subtract 4-digit numbers using decomposition (with exchanges) 		*15b. I can solve two-step problems involving division	
35. I can pattern spot and make generalisations about the times tables		11b. I can justify my strategy to multiply and divide.		*5a. I can round any number to the nearest 10, 100 and 1000	
36. I can show hundredths on a place value chart and give an example using measures or money		*14a. I can multiply and divide 2-digit numbers by 10		16b. I know these fraction-decimal equivalents: $\frac{1}{2} = 0.5$ $\frac{1}{4} = 0.25$ $\frac{3}{4} = 0.75$	
* 37. I can count on in hundredths		14b. I can multiply and divide 3-digit numbers by 10		20a. I can compare decimal numbers with 2dp (using < & >) <i>e.g.</i> 4.55 > 4.45	
*38. I can count back in hundredths		*9a. I can solve two-step problems involving addition		*20b. I can round decimals with 1dp to the nearest whole number e.g. 3.2 » 3, 4.6 » 5	