

	Addition	Subtraction	Multiplication	Division
У4	✓ Carry below the line. 625 783 $\frac{+ 48}{-673}$ $\frac{+ 42}{-1}$ $\frac{-625}{-1}$ -	 ✓ Partitioning and decomposition 754 = <u>- 86</u> Step 1 700 + 50 + 4 <u>- 80 + 6</u> 	Children will continue to use arrays where appropriate leading into the grid method of multiplication.	Children will develop their use of repeated subtraction to be able to subtract multiples of the divisor. Initially, these should be multiples of 10s, 5s, 2s and 1s - numbers with which the children are more familiar.
	Using similar methods, children will: ✓ add several numbers with different numbers of digits; ✓ begin to add two or more three-digit sums of money, with or without adjustment from the pence to the pounds; ✓ know that the decimal points should line up	Step 2 700 + 40 + 14 (adjust from T to U) - $\frac{80 + 6}{6}$ Step 3 $-\frac{600 + 140}{80 + 6} + 14$ (adjust from H to T) - $\frac{600 + 60 + 8}{600 + 6} = 668$ This would be recorded by the children as	6 000060000000000000000000000000000000	0 2 7 12 17 22 27 32 37 42 47 52 57 62 67 72 Moving ente: $r_2^{-5} - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 $
	under each other, particularly when adding or subtracting mixed amounts, e.g. £3.59 + 78p.	$-\frac{780}{780} + \frac{10}{90} + \frac{14}{4}$ $-\frac{80 + 6}{600 + 60 + 8} = 668$ \checkmark Decomposition $\frac{6141}{784}$ $\frac{-86}{668}$	TU x U (Short multiplication - multiplication by a single digit) 23 x 8 Children will approximate first 23 x 8 is approximately 25 x 8 = 200 x 20 3 8 160 24 160	72 + 3 <u>9) 72</u> - 30 - 30 10 - 30 2 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6
		Children should: ✓ be able to subtract numbers with different numbers of digits; ✓ using this method, children should also begin to find the difference between two three-digit sums of money, with or without 'adjustment' from the pence to the pounds; ✓ Know that decimal points should line up under each other. <u>f68.95</u> = -8 + 0.9 + 0.05 <u>-64.38</u> = -8 + 0.15 (adjust from T to U) = 1 <u>64.85</u> + 0.05 + 0.07 <u>-44.85</u> + 0.07	<u>+ 24</u> <u>184</u>	Leading to subtraction of other multiples. 96+6 $6\frac{16}{96}$ $-\frac{36}{36}$ $-\frac{36}{16}$ Any remainders should be shown as integers, i.e. 14 remainder 2 or 14 r 2. Children need to be able to decide what to do after division and round up or down accordingly. They should make sensible decisions about rounding up or down after division.