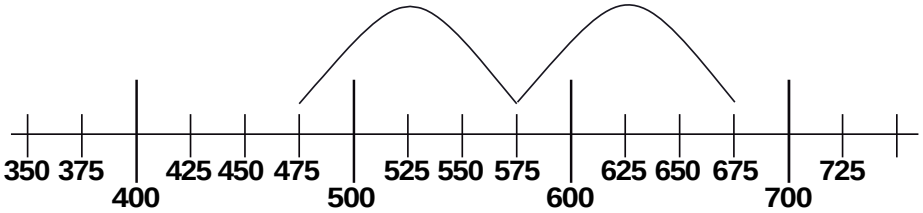
Mental Addition

Year 3

Using place value

Count in 100s

e.g. *Know 475 + 200 as 475, 575, 675*



Add multiples of 10, 100 and £1

e.g. *746 + 200*

e.g. *746 + 40*

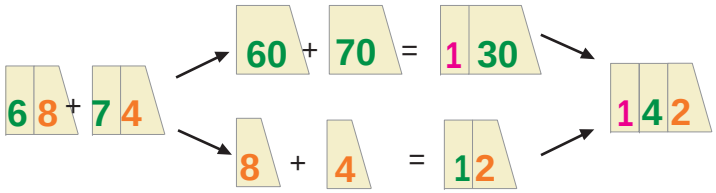
e.g. *£6·34 + £5 as £6 + £5 and 34p*

Partitioning

e.g. *£8·50 + £3·70 as £8 + £3 and 50p + 70p and combine the totals: £11 + £1·20*

e.g. *347 + 36 as 300 and 40 + 30 and 7 + 6 and combine the totals: 370 + 13 = 383*

e.g. *68 + 74 as 60 + 70 and 8 + 4 and combine the totals: 130 + 12 = 142*



Year 4

Using place value

Count in 1000s

e.g. *Know 3475 + 2000 as 3475, 4475, 5475*

Partitioning

e.g. *746 + 40*

e.g. *746 + 203 as 700 + 200 and 40 and 6 + 3*

e.g. *134 + 707 as 100 + 700 and 30 and 4 + 7*

Counting on

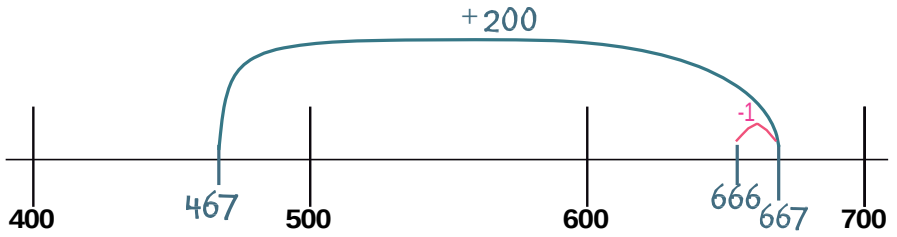
Add 2-digit numbers to 2-, 3- and 4-digit numbers by adding the multiple of 10 then the 1s

e.g. *167 + 55 as 167 + 50 (217) + 5 = 222*

Add near multiples of 10, 100 and 1000

e.g. *467 + 199*

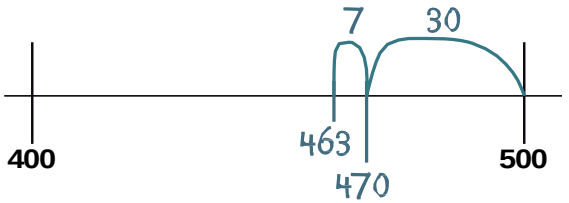
e.g. *3462 + 2999*



Count on to add 3-digit numbers and money

e.g. *463 + 124 as 463 + 100 (563) + 20 (583) + 4 = 587*

e.g. *£4·67 + £5·30 as £9·67 + 30p*

	Year 3	Year 4
Mental Addition	**Counting on** Add two 2-digit numbers by adding the multiple of 10, then the 1s e.g. *67 + 55 as 67 + 50 (117) + 5 = 122* Add near multiples of 10 and 100 e.g. *67 + 39* e.g. *364 + 199* Add pairs of 'friendly' 3-digit numbers e.g. *548 + 120* Count on from 3-digit numbers e.g. *247 + 34 as 247 + 30 (277) + 4 = 281* **Using number facts** Know pairs which total each number to 20 e.g. *7 + 8 = 15* e.g. *12 + 6 = 18* Number bonds to 100 e.g. *35 + 65* e.g. *46 + 54* e.g. *73 + 27* Add to the next 10 and the next 100 e.g. *176 + 4 = 180* e.g. *435 + 65 = 500*	**Using number facts** Number bonds to 100 and to the next multiple of 100 e.g. *288 + 12 = 300* e.g. *1353 + 47 = 1400* e.g. *463 + 37 = 500*  Number bonds to £1 and to the next whole pound e.g. *63p + 37p = £1* e.g. *£3·45 + 55p = £4* Add to the next whole number e.g. *4·6 + 0·4* e.g. *7·2 + 0·8*

Written Addition

Year 3

Build on partitioning to develop expanded column addition with two 3-digit numbers

e.g. *466 + 358*

	400	60	6
+	300	50	8
	700	110	14 = 824

Use expanded column addition where digits in a column add to more than the column value

e.g. *466 + 358*

	400	60	6
	300	50	8
+	100	10	
	800	20	4

Compact column addition with two or more 3-digit numbers or towers of 2-digit numbers

e.g. *347 + 286 + 495*

	347
	286
+	495
	21
	1128

Compact column addition with 3- and 4-digit numbers

Recognise like fractions that add to 1

e.g. *1/4 + 3/4*

e.g. *3/5 + 2/5*

Year 4

Build on expanded column addition to develop compact column addition with larger numbers

e.g. *1466 + 4868*

	1000	400	60	6
	4000	800	60	8
+	1000	100	10	
	6000	300	30	4

Compact column addition with larger numbers

e.g. *5347 + 2286 + 1495*

	5347
	2286
+	1495
	121
	9128

Use expanded and compact column addition to add amounts of money

Add like fractions

e.g. *3/8 + 1/8 + 1/8*

Mental Addition

Year 5

Using place value

Count in 0·1s, 0·01s

e.g. *Know what 0·1 more than 0·51 is*

10s	1s	0·1s	0·01s
	0	5	1

Partitioning

e.g. *2·4 + 5·8 as 2 + 5 and 0·4 + 0·8 and combine the totals: 7 + 1·2 = 8·2*

0·1	0·2	0·3	0·4	0·5	0·6	0·7	0·8	0·9	1
1·1	1·2	1·3	1·4	1·5	1·6	1·7	1·8	1·9	2
2·1	2·2	2·3	2·4	2·5	2·6	2·7	2·8	2·9	3
3·1	3·2	3·3	3·4	3·5	3·6	3·7	3·8	3·9	4
4·1	4·2	4·3	4·4	4·5	4·6	4·7	4·8	4·9	5
5·1	5·2	5·3	5·4	5·5	5·6	5·7	5·8	5·9	6
6·1	6·2	6·3	6·4	6·5	6·6	6·7	6·8	6·9	7
7·1	7·2	7·3	7·4	7·5	7·6	7·7	7·8	7·9	8
8·1	8·2	8·3	8·4	8·5	8·6	8·7	8·8	8·9	9
9·1	9·2	9·3	9·4	9·5	9·6	9·7	9·8	9·9	10

Year 6

Using place value

Count in 0·1s, 0·01s, 0·001s

e.g. *Know what 0·001 more than 6·725 is*

Partitioning

e.g. *9·54 + 3·23 as 9 + 3, 0·5 + 0·2 and 0·04 + 0·03, to give 12·77*

Counting on

Add two decimal numbers by adding the 1s, then the 0·1s/0·01s/0·001s

e.g. *6·314 + 3·006 as 6·314 + 3 (9·314) + 0·006 = 9·32*

Add near multiples of 1

e.g. *6·345 + 0·999*

e.g. *5·673 + 0·9*

Count on from large numbers e.g.

16 375 + 12 003 as 28 375 + 3

Mental Addition

Year 5

Counting on

Add two decimal numbers by adding the 1s, then the 0·1s/0·01s

e.g. *5·72 + 3·05 as 5·72 + 3 (8·72) + 0·05 = 8·77*

Add near multiples of 1

e.g. *6·34 + 0·99*

e.g. *5·63 + 0·9*

Count on from large numbers

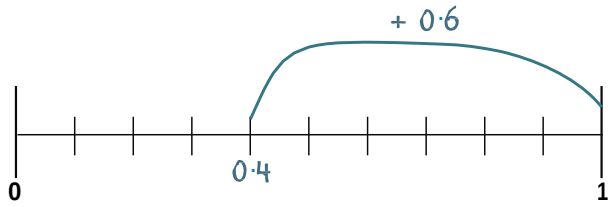
e.g. *6834 + 3005 as 9834 + 5*

Using number facts

Number bonds to 1 and to the next whole number

e.g. *5·7 + 0·3*

e.g. *0·4 + 0·6*



Add to the next 10 from a decimal number

e.g. *7·8 + 2·2 = 10*

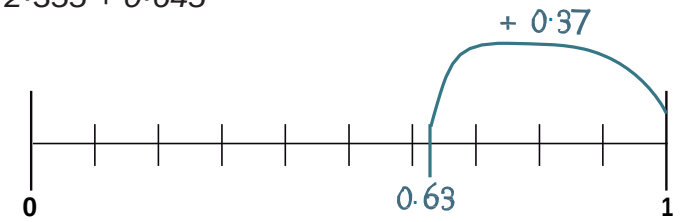
Year 6

Using number facts

Number bonds to 1 and to the next multiple of 1

e.g. *0·63 + 0·37*

e.g. *2·355 + 0·645*



Add to the next 10

e.g. *4·62 + 5·38*

Written Addition

Year 5

Expanded column addition for money leading to compact column addition for adding several amounts of money

e.g. *£14·64 + £28·78 + £12·26*

	£14	60p	4p
	£28	70p	8p
+	£12	20p	6p
	£1	10p	
	£55	60p	8p

Compact column addition to add pairs of 5-digit numbers

Continue to use column addition to add towers of several larger numbers

Use compact addition to add decimal numbers with up to 2 decimal places

e.g. *15·68 + 27·86*

	15·68
+	27·86
	11·1
	43·54

Add related fractions

e.g. *3/4 + 1/8 = 7/8*

Year 6

Compact column addition for adding several large numbers and decimal numbers with up to 2 decimal places

Compact column addition with money

e.g. *£14·64 + £28·78 + £12·26*

	£14·64
+	£28·78
	£12·26
	11·1
	£55·68

Add unlike fractions, including mixed numbers

e.g. *1/4 + 2/3= 11/12*

e.g. *2 1/4 + 1 1/3 = 3 7/12*