Stage 1-Mental Addition

Using place value

Count in 1s

e.g. 45 + 1

Count in 10s

e.g. 45 + 10 without counting on in 1s

34	35	36
44	45	46
54	55	56

Add 10 to any given 2-digit number.

Counting on

Count on in 1s

e.g. 8 + 3 as 8, 9, 10, 11

Add, putting the larger number first

Count on in 10s

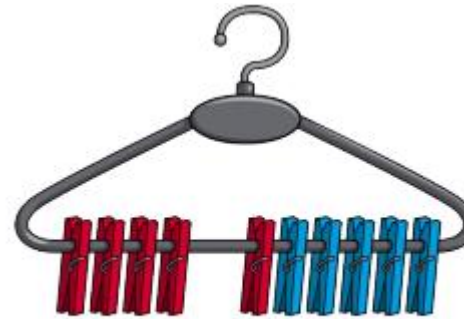*e.g. 45 + 20 as 45, 55, 65*

8, 9, 10, 11 …

Stage 1-Mental Addition

Using number facts

'Story' of 4, 5, 6, 7, 8 and 9

e.g. 7 = 7 + 0, 6 + 1, 5 + 2, 4 + 3

Number bonds to 10

e.g. 5 + 5, 6 + 2, 7 + 3, 8 + 2, 9 + 1, 10 + 0

$4 + 6 = 10$

Use patterns based on known facts when adding

e.g. 4 + 3 = 7 so we know 24 + 3, 44 + 3, 74 + 3

Stage 2-Mental Addition

Using place value

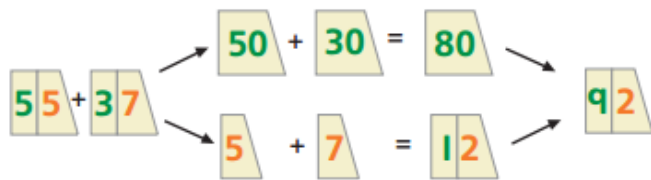Know 1 more or 10 more than any number

e.g. 1 more than 67

e.g. 10 more than 85

Partitioning

e.g. 55 + 37 as 50 + 30 and 5 + 7, then finally combine the two totals: 80 + 12
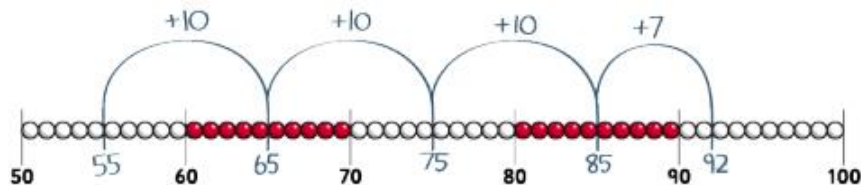

Counting on

Add 10 and multiples of 10 to a given 1- or 2-digit number

e.g. 76 + 20 as 76, 86, 96 or in one hop: 76 + 20 = 96

Add two 2-digit numbers by counting on in 10s, then in 1s

e.g. 55 + 37 as 55 + 30 (85) + 7 = 92

Add near multiples of 10

e.g. 46 + 19

e.g. 63 + 21

Stage 2-Mental Addition

Using number facts

Know pairs of numbers which make the numbers up to and including 12

e.g. 8 = 4 + 4, 3 + 5, 2 + 6, 1 + 7, 0 + 8
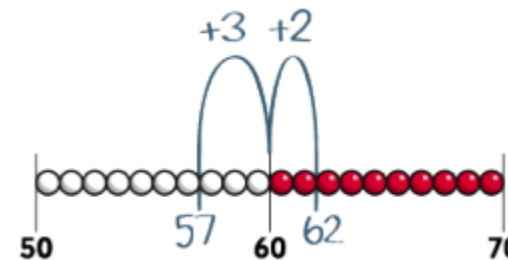
e.g. 10 = 5 + 5, 4 + 6, 3 + 7, 2 + 8, 1 + 9, 0 + 10

Use patterns based on known facts when adding

e.g. 6 + 3 = 9, so we know 36 + 3 = 39, 66 + 3 = 69, 56 + 3 = 59

Bridging 10

e.g. 57 + 5 = 57 + 3 (60) + 2 = 62

Add three or more 1-digit numbers, spotting bonds to 10 or doubles

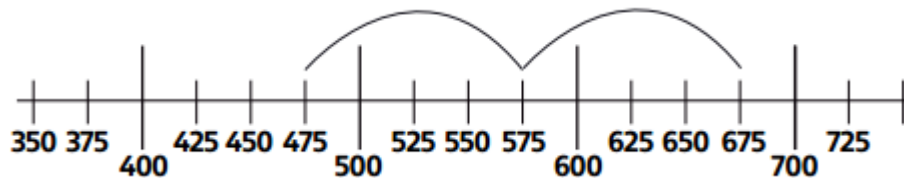*e.g. 3 + 5 + 3 = 6 + 5 = 11*

e.g. 8 + 2 + 4 = 10 + 4 = 14

Stage 3-Mental Addition

Using place value

Count in 100s

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

Add multiples of 10, 100 and £1

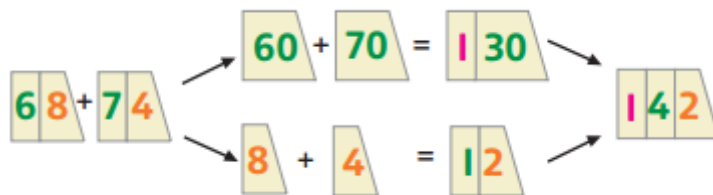*e.g. 746 + 200*

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

Stage 3-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

Stage 4-Mental Addition

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, +40 and 6 + 3

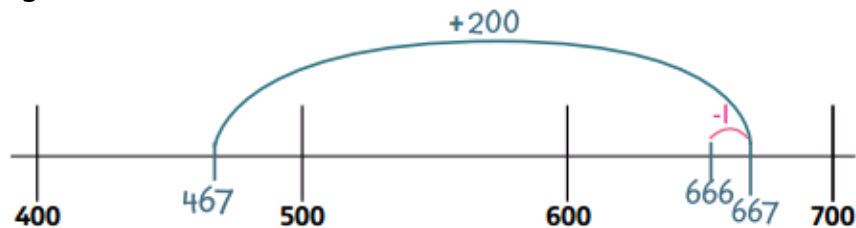e.g. 134 + 707 as 100 + 700, +30 and 4 + 7

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

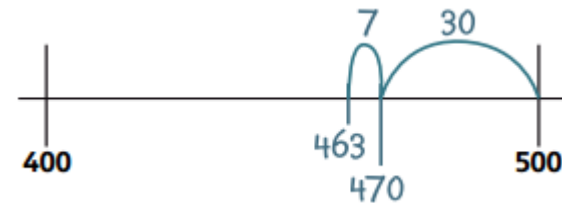+ e.g. £4·67 + £5·30 as £9·67 + 30p

Stage 4-Mental Addition

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

Stage 5-Mental Addition

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

Stage 5-Mental Addition

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

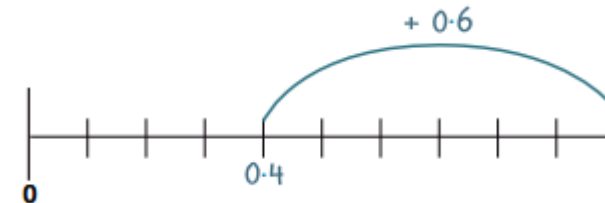*e.g. 5·63 + 0·9*

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

Stage 6-Mental Addition

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

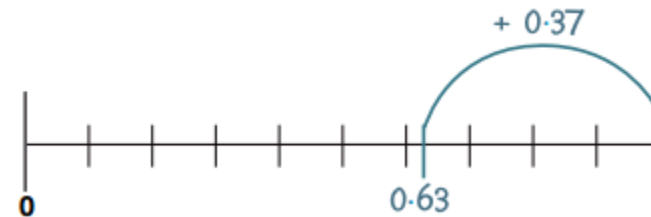*e.g. 16 375 + 12 003 as 28 375 + 3*

Stage 6-Mental Addition

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

Stage 1 – Written Addition

Build on partitioning to develop expanded column addition with two 3-digit numbers e.g. *466 + 358*

$$
\begin{array}{rrr}
400 & 60 & 6 \\
+ \ 300 & 50 & 8 \\
\hline
700 & 110 & 14 \ = 824
\end{array}
$$

Where digits in a column add to more than the column value (as above) then

$$
\begin{array}{rrr}
700 & 0 & 0 \\
+ \ 100 & 10 & 0 \\
& 10 & 4
\end{array}
\qquad \text{or} \qquad 700 + 110 + 14 =
$$

Build on expanded column addition to develop compact column addition with two 2-digit or 3-digit numbers e.g. *347 + 286*

$$
\begin{array}{r}
347 \\
+ \ 286 \\
\hline
633 \\
11
\end{array}
$$

Compact column addition with 3- and 4-digit numbers

Recognise like fractions that add to 1

e.g. $\frac{1}{4} + \frac{3}{4}$

e.g. $\frac{3}{5} + \frac{2}{5}$

Stage 2 – Written Addition

Compact column addition with larger numbers e.g. *5347 + 2286 + 1495*

$$
\begin{array}{r}
5347 \\
2286 \\
+ \ 1495 \\
\hline
9128 \\
121
\end{array}
$$

Use compact column addition to add amounts of money

$$
\begin{array}{r}
£24.68 \\
+ \ £17.51 \\
\hline
£42.19 \\
11
\end{array}
$$

Add like fractions

e.g. $\frac{3}{8} + \frac{1}{8} + \frac{1}{8}$

Stage 3 – Written Addition Compact column addition for adding several amounts of money e.g. *£14·64 + £28·78 + £12·26* Compact column addition to add pairs of 5-digit numbers Use compact addition to add decimal numbers with up to 2 decimal places e.g. *15·68 + 27·86* $$\begin{array}{r} 15{\cdot}68 \\ +\ 27{\cdot}86 \\ \hline 43{\cdot}54 \\ \hline 1\,1{\cdot}1 \end{array}$$ Add related fractions $$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$ e.g.	**Stage 4 – Written Addition** 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* $$\begin{array}{r} £14{\cdot}64 \\ +\ £28{\cdot}78 \\ £12{\cdot}26 \\ \hline £55{\cdot}68 \\ \hline 1\,1{\cdot}1 \end{array}$$ Add unlike fractions, including mixed numbers e.g. $\frac{1}{4} + \frac{2}{3} = \frac{11}{12}$ e.g. $2\frac{1}{4} + 1\frac{1}{3} = 3\frac{7}{12}$