## Keep the first number whole

$27+14$
$27+10+4$
(37) $+4=41$

| 23 |
| ---: |
| +14 |
| 37 |

$2 \mathrm{dn}+$ multiples of 10 Column method $\qquad$
(10) (10)
(1) (1)
$64+30=9$
(10)
$2 \mathrm{dn}+$ multiples of 10


2dn +2 dn with renaming
Carried figure

| +1 | $+1+1$ |  |
| :---: | ---: | ---: |
| 48 | 258 | 58 |
| +14 | +165 | +1 |
| 62 |  | $\frac{+23}{75}$ |

## Y5 Objectives

- Numbers with more than 4 digits

Decimal numbers

| Column method <br> Unitise: <br> 8 ones +4 ones equals 12 ones. We rename this: it is 1 ten and 2 ones. <br> 4 tens add 1 ten add the 1 carried ten equals 6 tens (not $40+10+10=60$ ) |  |
| :---: | :---: |
|  |  |
|  |  |
| Decimal numbers <br> Different number of digits | - Vary the number of digits in the number <br> - = sign on the RHS <br> - Balanced equations |
|  |  |
| 57.30 |  |
|  | $\begin{aligned} & 65+577= \\ & ?=4277+656 \end{aligned}$ |
|  |  |
| 63.38 | $648+?=1036+58$ |

Y4 Objectives

- Numbers up to 4 digits
- Choose appropriate method

| Key skills: |
| :--- |
| $2 \mathrm{dn}+1 \mathrm{dn}$ |
| $2 \mathrm{dn}+$ multiples of 10 |
| Column method |

Children to use the part whole and bar model to develop
estimation and number sense


| $?$ |  |
| :--- | :--- |
| 3027 | 498 |


| Unitise:$\quad$ Column method |
| :--- | :--- |
| 8 ones +4 ones equals 12 ones. We rename this: it is 1 ten and 2 ones. |$\quad$| Solve missing |
| :--- |
| box problems |

8 ones +4 ones equals 12 ones. We rename this: it is 1 ten and 2 ones.
4 tens add 1 ten add the 1 carried ten equals 6 tens ( not $40+10+10=60$ )


## Y6 Objectives

- Numbers with more than 4 digits

Children to use the part whole and bar model to develop

- Decimal numbers
- Multi-step problems


| ? |  |
| ---: | ---: |
| 487.3 | 2.9 |

ame. Amy's current high score is 8,524
Matthew's high score is bigger than Amy's and when
you add them together their combined
What is Matthew's high score?


A is an odd number which rounds to 100,000 to the nearest
ten thousand.
It has a digit total of 30
nearest hundred thousand
It has a digit total of 10
$A$ and $B$ are both multiples of 5 but end in different digits


| Addition - progression in written methods Y1 to Y6 |
| :--- |
| Contextualise the mathematics <br> WHAT DOES THIS NUMBER REPRESENT?Expose mathematical structure and work systematically |
| Expect children to use correct terminology and express reasoning <br> - Use STEM SENTENCES <br> - Answer in complete sentences |

$1+5=6$
addend addend
Teach inequality alongside equality

< and > can also help deepen understanding of key concepts,

$$
\begin{array}{ll}
\text { eg } 18 \mathrm{p} & £ 0.15
\end{array}
$$

| Use empty box problems |  |
| :--- | :--- |
| - | Promotes reasoning and finding |
|  | easy ways to calculate |
| - | Use a sequence to develop |
| conceptual connections |  |

## Y2 Objectives

- $1 \mathrm{dn}+1 \mathrm{dn}+1 \mathrm{dn}$
- $2 d n+1 d n$
- $2 \mathrm{dn}+2 \mathrm{dn}($ sum $<100)$

| Key skills: |
| :--- |
| $2 d n+1 d n$ |
| $2 d n+$ multiples of 10 |

2dn + 1dn Use numbers in a context What does each number represent?

 now?


$$
\begin{aligned}
& 27+14 \\
& \frac{27+10}{37}+4 \\
& 3=41
\end{aligned}
$$

## Y1 Objective

- Number bonds an related addition facts within 20
- Add 1 and 2 digit numbers to 20, including zero


| Smal Stop | trample |
| :---: | :---: |
| $\begin{aligned} & \hline 2 \text { digit + } 1 \text { digit } \\ & \text { (nat brapos) } \end{aligned}$ | $26+3$ |
| 2 digit + 1 digit <br> (Wifn braping asunfingin it | $27+4$ |
|  | 27+4 (27 +3+7) |
| $\frac{10}{2 d i g t+10}$ | $27+10$ |
| 2 digit + mulfipias of 10 | 27+30 |
| akip counting in muliplen of 20 | 7,27,47,47,87 |
|  | 27+12 |
| 2 digit + law 2 dial number | $27+32$ |
| $\begin{array}{\|l} \hline 2 \text { digit tevema only } \\ \text { covilno } 18 \mid \end{array}$ | $\begin{aligned} & 27+14 \\ & 27+1+4 \\ & (37+4=41 \end{aligned}$ |
| $\begin{array}{\|l\|} \hline 2 \text { digit } 2 \text { digit } \\ \text { inat bospind } \end{array}$ | $\begin{aligned} & 27+54 \\ & 27+50+4 \\ & 87+4=91 \end{aligned}$ |
| "deuble mefhod" <br> Introaveing celumn addition alongide 2 digit +2 digl <br> (inat 2 102 orlariaging 10) | $\begin{aligned} & 23+14 \\ & 23+10+4 \\ & 133+4=37 \\ & 23 \\ & +\frac{14}{-} \end{aligned}$ |

