| Key Vocabulary: |
| :--- |
| add |
| addition |
| total |
| plus |
| more |
| increase |
| altogether |
| difference |
| subtract |
| less |
| minus |
| decrease |
| take away |
| how many are left? |
| exchange |
| estimate |
| Inverse |
| tens boundary |
|  |

Key learning: choose an efficient method
In Year 3 we encourage you to look closely at the numbers in the calculation and make a decision about which method you will use:

Always start at number 1 and only use a written method if you can't work it out mentally

1. Do I know the answer? (can I just say it automatically- rapid recall)
2. Can I work it out in my head? (mental method)
3. Do I need to use a jotting? (mental method)
4. Do I need a written method? (column method)

## MENTAL METHOD

Key learning: add and subtract 3-digit numbers by counting on and back in 1 s

This method will use your rapid recall of number bonds when bridging through 10:


## MENTAL METHOD

Key learning: add and subtract 3-digit numbers by counting on and back in 10s

The ones digit will never change

" 365 -375, 385"
"782-772, 762, 752, 742, 732, 722"

## MENTAL METHOD

Key learning: add and subtract 3-digit numbers by counting on and back in 100s

The tens digit and ones digit will never change


$$
" 423-523,623,723 "
$$

"677 • 577, 477"

## WRITTEN METHOD

Key learning: add two 3-digit numbers with exchange

## Column addition:

Starting from the right, add each column in turn. Carry digits to the next column if the total adds to more than 9.


MENTAL METHOD
Key learning: Recall addition and subtraction facts for 100 (multiples of 5 and 10).

RAPID RECALL: in Year 3 you are expected to know automatically number bonds to 100 . Here are some examples:

$$
\begin{aligned}
& 70+30=100 \\
& 60+40=100 \\
& 20+80=100
\end{aligned}
$$



## WRITTEN METHOD

Key learning: subtract two 3-digit numbers with exchange

## Column subtraction:

Starting from the right, subtract each column in turn.


3 subtract 7 would give us a negative number, so we regroup.

Exchange one lot of 10 , so we now have 13-7.

## MENTAL METHOD

Key learning: find the difference by counting up through the next multiple of 10 or 100

For example, in the calculation 200-86 it is more efficient to count up from 86 to 200 in three steps $(+4,+10,+100)$ than use a formal written method.


