



# Maths Knowledge Organiser - Addition and Subtraction - Year 3

## Key Vocabulary

add

total

plus

sum

more

altogether

difference

subtract

less

minus

take away

column addition

column subtraction

exchange

estimate

inverse operation

solve problems

number facts

place value

## Addition and Subtraction Methods

### 3 digit and 1 digit numbers

Not crossing 10s

$$268 - 4 = 264$$

Hundred	Ten	Ones
●●	●●●●	●●●●●●

$$343 + 6 = 349$$



### Crossing 10s (Exchanging)

324		
300	20	4
300	10	14

$$316 + 8 = 324$$

316	8
●●●●●●●●	●●●●●●

$$324 - 8 = 316$$

### 3-digit and 2-digit numbers

Add and subtract tens

Hundred	Ten	Ones
●●	●●●●	●

$$451 + 3 \text{ tens} = 481 \quad (5 + 3 = 8)$$

$$451 - 4 \text{ tens} = 411 \quad (5 - 4 = 1)$$

### Crossing 10s (Exchanging)

$$258 + 80 = 338$$

- Column method
- Count in 10s mentally
- Add 100, subtract 20

### Crossing 10 and 100

$$\begin{array}{r} 368 \\ +73 \\ \hline 1 \\ 1 \end{array}$$

$$\begin{array}{r} 31 \\ 441 \\ -73 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 68 \end{array}$$

$$\begin{array}{r} 3131 \\ 441 \\ -73 \\ \hline 368 \end{array}$$

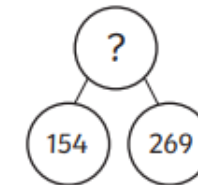
### 3-digit numbers

Not crossing

$$679 - 351 = 328$$

Hundred	Ten	Ones
●●●	●●●	●●●

### Crossing 10s (Exchanging)



$$\begin{array}{r} 269 \\ +154 \\ \hline 423 \\ 11 \end{array}$$

514	
268	?

$$\begin{array}{r} 4101 \\ 514 \\ -268 \\ \hline 246 \end{array}$$

### Add and Subtract 100s

$$284 + 300 = 584$$

Hundred	Ten	Ones
●●	●●●●	●
●●	●●●●	●



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## Estimate

Divide number lines into smaller sections to help estimate marked numbers. Estimate by dividing the hundred into 250 and 225.

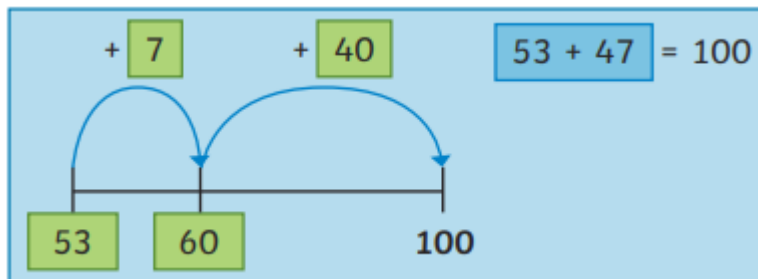
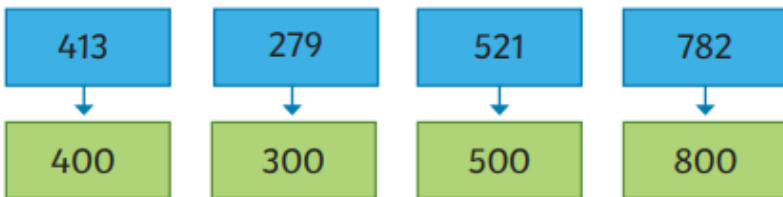
Estimate 10s (230, 240) between 225 and 250.



Estimate  $167 - 89$

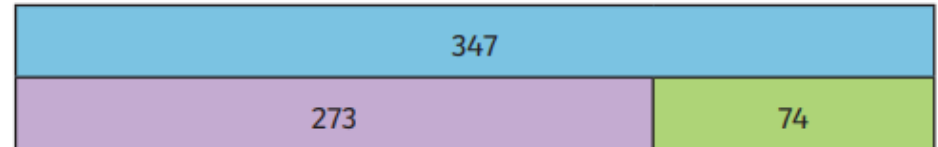
Use near numbers  $170 - 90 = 80$

Near numbers:



$$53 + 47 = 100$$

## Check Answers



$347 - 74 = 273$  can be checked using

$$273 + 74 = 347$$

This part whole shows the inverse calculations using these three numbers.

$154 + 269 = 423$	$269 + 154 = 423$
$423 - 154 = 269$	$423 - 269 = 154$

