Addition and Subtraction

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

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Addition and Subtraction Methods

3-digit and 1-digit numbers

Not crossing 10s

$268 - 4 = 264$

Hundred	Ten	Ones
●●	●●● ●●●	●●●● ●●●●

$343 + 6 = 349$

340 ———————————— 350
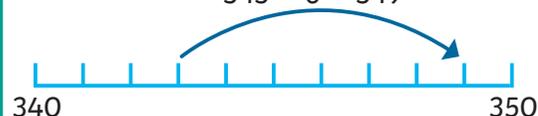
Crossing 10s (Exchanging)

324		
300	20	4
300	10	14
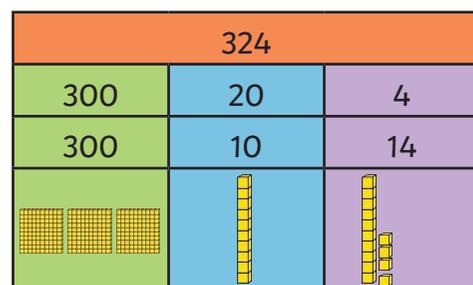
$316 + 8 = 324$

316	8
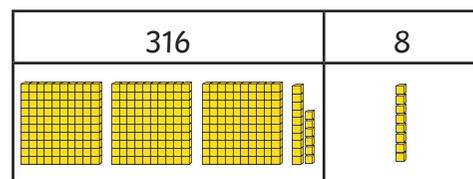
$324 - 8 = 316$

3-digit and 2-digit numbers

Add and subtract tens

Hundred	Ten	Ones
●● ●●	●●● ●●	●
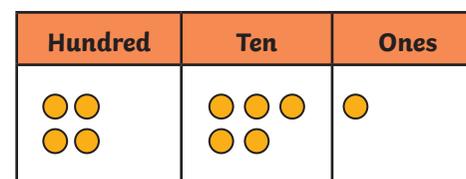
$451 + 3 \text{ tens} = 481 \ (5 + 3 = 8)$

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

Crossing 10s (Exchanging)

$258 + 80 = 338$

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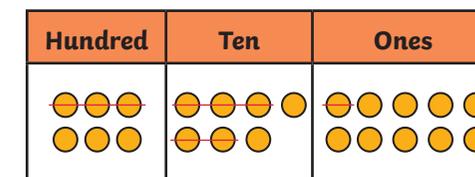- Count in 10s mentally
- Add 100, subtract 20

Crossing 10 and 100

$$\begin{array}{r} 368 \\ +73 \\ \hline 1 \\ \hline 1 \end{array} \quad \begin{array}{r} 368 \\ +73 \\ \hline 41 \\ \hline 11 \end{array} \quad \begin{array}{r} 368 \\ +73 \\ \hline 441 \\ \hline 11 \end{array}$$

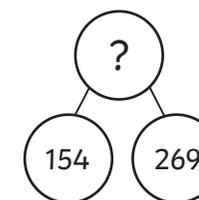$$\begin{array}{r} 3\,1 \\ 441 \\ -73 \\ \hline 8 \end{array} \quad \begin{array}{r} 3\,13\,1 \\ 441 \\ -73 \\ \hline 68 \end{array} \quad \begin{array}{r} 3\,13\,1 \\ 441 \\ -73 \\ \hline 368 \end{array}$$

3-digit numbers

Not crossing

$679 - 351 = 328$

Hundred	Ten	Ones
●●● ●●●	●●●● ●●●	●●●● ●●●●

Crossing 10s (Exchanging)

? → 154, 269

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

514	
268	?
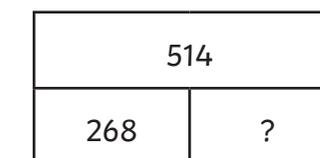
$$\begin{array}{r} 4\,10\,1 \\ 5\!\!\not1\!\!\not4 \\ -268 \\ \hline 246 \end{array}$$

Add and Subtract 100s

$284 + 300 = 584$

Hundred	Ten	Ones
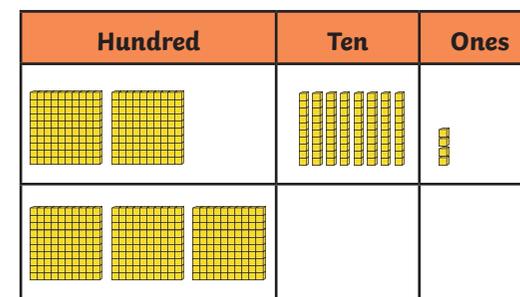
Estimate

Estimate by dividing the hundred into 250 and 225.

Estimate 10s (330, 340) between 325 and 350.

200   300

Estimate 167 − 89
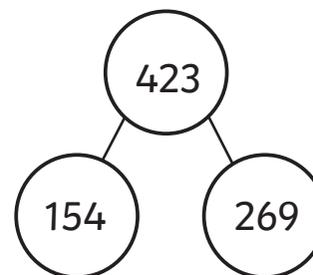Use near numbers 170 − 90 = 80

Near numbers:

413	279	521	782
400	300	500	800

Check Answers

347	
273	74
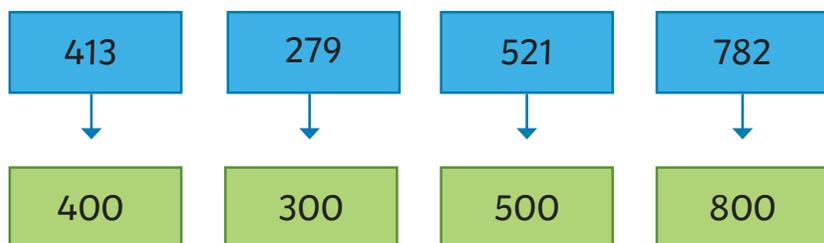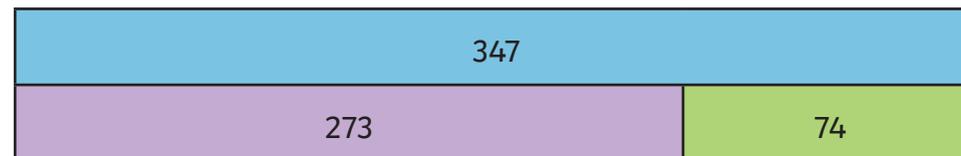
347 − 74 = 273 can be checked using

273 + 74 = 347

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

423
154   269

154 + 269 = 423	269 + 154 = 423
423 − 154 = 269	423 − 269 = 154