Addition and Subtraction Knowledge Organiser

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

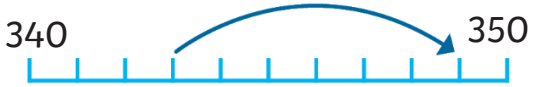
3-digit and 1-digit numbers

Not crossing 10s

68 – 4 =

Hundred	Tens	Ones
●●	●●●	●●●●

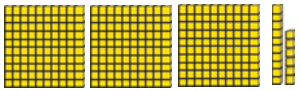
343 + 6 = 349



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	Tens	Ones
●●	●●●	●

451 + 3 tens = 481 (5 + 3 = 8)

451 – 4 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

368 +73 = 1 (1)	368 +73 = 41 (11)	368 +73 = 411 (11)

441 -73 = 8	441 -73 = 68	441 -73 = 368

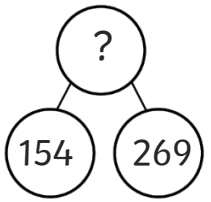
3-digit numbers

Not crossing

679 – 351 = 328

Hundred	Tens	Ones
●●●	●●●●	●●●●

Crossing 10s (Exchanging)



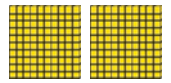
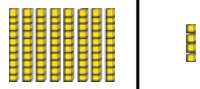
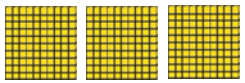
269 +154 = 423 (11)

514	
268	?

514 -268 = 246 (4 10 1)

Add and Subtract 100s

284 + 300 = 584

Hundred	Tens	Ones
		
		

Addition and Subtraction — Knowledge Organiser

Estimate

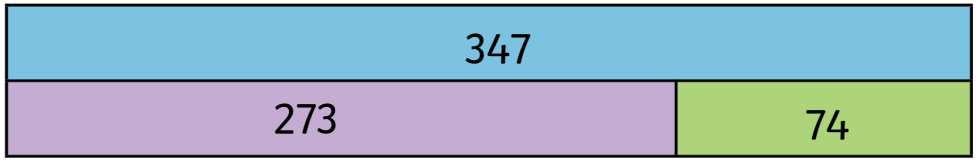
Divide number lines into smaller sections to help estimate marked numbers. Estimate by dividing the hundred into 250 and 225. Estimate 10s (230, 240) between 225 and 250.



Estimate 167 – 89
Use near numbers 170 – 90 = 80
Near numbers:

413	279	521	782
↓	↓	↓	↓
400	300	500	800

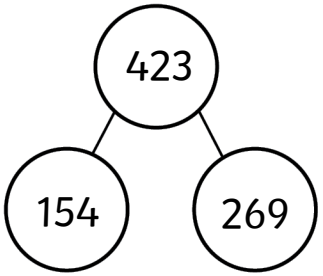
Check Answers



347 – 74 = 273 can be checked using

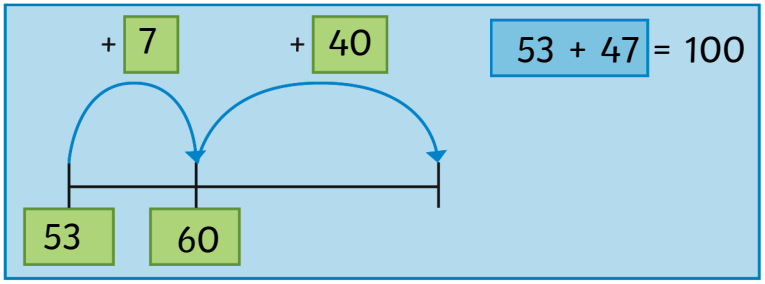
273 + 74 = 347

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



154 + 269 = 423	269 + 154 = 423
423 – 154 = 269	423 – 269 = 154

Complements to 100



53 + 47 = 100

