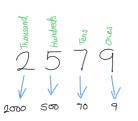
# **Knowledge Organiser - Maths**

## Key Facts - Place Value

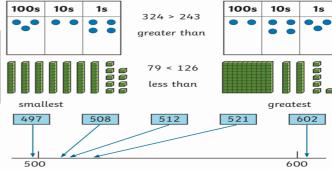
Place value is the value of each digit in a number. It means understanding that 582 is made up of 500, 80 and 2, rather than 5, 8 and 2.

Thousands Hundreds Tens Ones

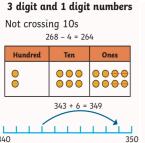


230					
two hundred	fifty	six			
		6 6 6 6 6 6			
200	50	6			

## Comparing and Ordering



# Key Facts - Addition and Subtraction



Crossing 10s (Exchanging)

20

10

316 + 8 = 324 316

324 - 8 = 316

300

300

### 3-digit and 2-digit numbers 3-digit numbers Add and subtract tens

Hundred	Ten	Ones
00	000	•

451 + 3 tens = 481 (5 + 3 = 8)	
451 - 4 tens = 411 (5 - 4 = 1)	

Not crossing

Hundred	Ten	Ones
000	000	0000

Crossing 10s (Exchanging)

### Crossing 10s (Exchanging)

258 + 80 = 338

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

## Crossing 10 and 100

368	368	368
+73	+73	+73
1	41	441
1	11	1)1

### 269 +154 423 269

	_	_	/ 10 1
	5	14	4 10 1 <b>51</b> 4
		-	- 268
	268	?	246
s	uhtract 10	Ωs	

284 + 300 = 584 Ten

	Counting									
Counting	Counting in 6s									
0	6	12	18	24	30	36	42	48	54	60
Counting	in 7s									
0	7	14	21	28	35	42	49	56	63	70
Counting	in 9s									
0	9	18	27	36	45	54	63	72	81	90
Counting	in 25s									
0	25	50	75	100	125	150	175	200	225	250
Counting in 1000s										
0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10 000

# Estimate

4

14

8

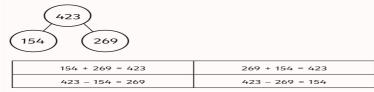
Estimate by dividing the hundred into 250 and 225.



## **Check Answers**

347					
273	74				
347 – 74 = 273 can be checked using					
273 + 74 = 347					

This part whole shows the inverse calculations using these



# Key Vocabulary

addition	the act or process of adding one thing to another	
subtraction	the act or process of taking one number away from another number	
division	division is breaking a number up into equal parts	
place value	the value of each digit in a number	
compare	estimate, measures or note the similarities or differences between numbers	
partition	splitting numbers into smaller parts to make them easier to work with	
number pattern	a list of numbers that follow a certain pattern or sequence	