Knowledge Organiser

Year Group	Subject	Topic
3	Mathematics	Place Value

The Big Picture
In this unit, you will learn about numbers up to 1,000. You will use tens and ones knowledge from Year 2 to build numbers, represent them in different ways, and understand how place value helps us compare, order, and calculate efficiently.
Enquiry Question
How can we use place value to understand and work with numbers up to 1,000?

Key Vocabulary	What You Will Learn
Ones – single units	• Numbers go up to 1,000 in Year 3.
Tens – groups of ten ones	• 10 ones = 1 ten and 10 tens = 1 hundred.
Hundreds – groups of ten tens	• How to partition numbers in different ways.
Digit – each symbol in a number (0–9)	• How to show numbers using base 10, drawings and counters.
Value – how much the digit is worth	• How to find 1, 10 or 100 more/less than a number.
Partition – to split a number into parts	• How to place numbers on number lines.
Compare – to say if numbers are bigger/smaller/equal	• How to estimate where a number goes.
Order – to put numbers in sequence	• How to compare and order numbers up to 1,000.
	• How to count in 50s (50, 100, 150 …).

Key Models

Part-Whole Model

Here is a part-whole model.

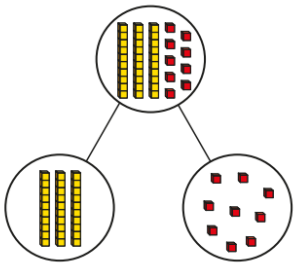
Complete the sentences.

The whole is _____

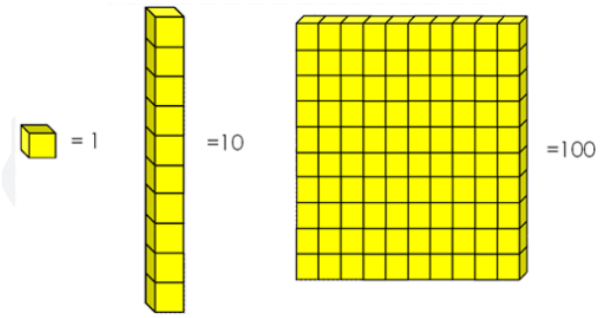
One part is _____

The other part is _____

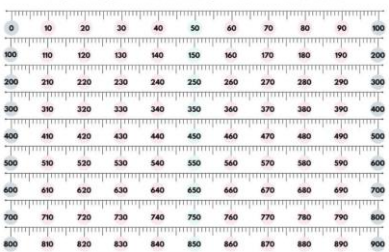
_____ = _____ + _____



Base 10



Number Line 0 – 1000

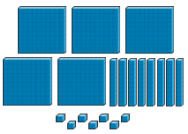


Represent numbers to 1000

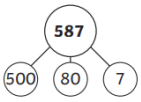
587

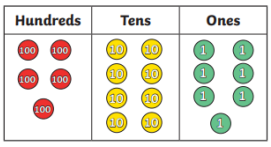
five hundred and eighty-seven

Hundreds	Tens	Ones
𝍸	𝍸 | ||	𝍸 ||



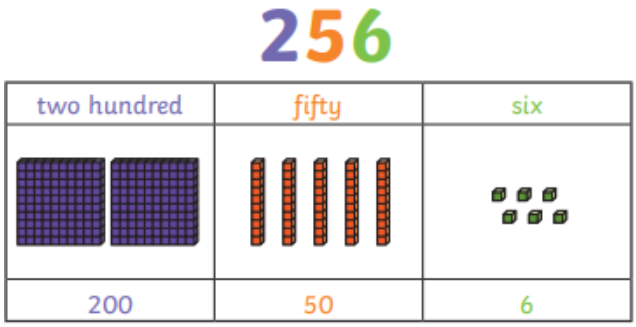
500 + 80 + 7



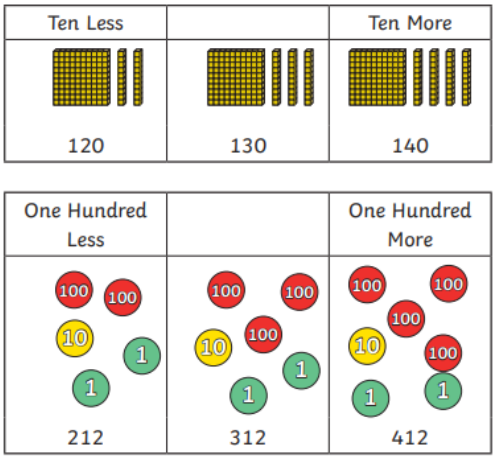


Check Yourself	Top Tips
• Partition 374 in two different ways. • What is 10 more than 289? • Place 725 on a number line between 700 and 800. • Which is greater: 406 or 460? • Count in 50s from 150.	• Look for the largest place value first (hundreds → tens → ones). • Always check if a number is closer to one end of the number line. • Use different representations (drawings, counters, base 10). • When comparing numbers, start with the hundreds digit.

3-digit number



10 and 100 More or Less



Counting in 4s and 8s

0	4	8	12	16	20	24	28	32	36	40

0	8	16	24	32	40	48	56	64	72	80

Counting in 50s and 100s

0	50	100	150	200	250	300	350	400	450	500

0	100	200	300	400	500	600	700	800	900	1000

Compare and order