

Numbers to 100,000

Notes and Guidance

Children focus on numbers up to 100,000
They represent numbers on a place value grid, read and write numbers and place them on a number line to 100,000

Using a number line, they find numbers between two points, place a number and estimate where larger numbers will be.

Mathematical Talk

How can the place value grid help you to add 10, 100 or 1,000 to any number?

How many digits change when you add 10, 100 or 1,000? Is it always the same number of digits that change?

How can we represent 65,048 on a number line?

How can we estimate a number on a number line if there are no divisions?

Do you need to count forwards and backwards to find out if a number is in a number sequence? Explain.

Varied Fluency

A number is shown in the place value grid.

10,000s	1,000s	100s	10s	1s
● ● ● ●	● ●	● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ●

Write the number in figures and in words.

- Alex adds 10 to this number
- Tommy adds 100 to this number
- Eva adds 1,000 to this number

Write each of their new numbers in figures and in words.

Complete the grid to show the same number in different ways.

Counters	65,048	Part-whole model
Bar model		Number line

Complete the missing numbers.

$$59,000 = 50,000 + \underline{\quad}$$

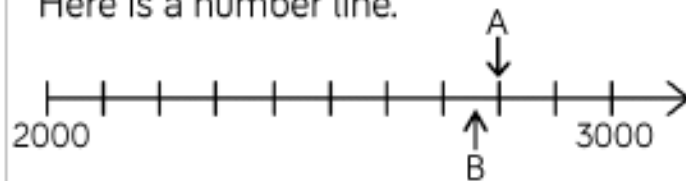
$$\underline{\quad} = 30,000 + 1,700 + 230$$

$$75,480 = \underline{\quad} + 300 + \underline{\quad}$$

Problem solving and reasoning

1.

Here is a number line.



What is the value of A?

B is 40 less than A.

What is the value of B?

C is 500 less than B.

Add C to the number line.

2.

Here are three ways of partitioning
27,650

27 thousands and 650 ones

27 thousands, 5 hundreds and 150 ones

27 thousands and 65 tens

Write three more ways