

# Master Reading and Writing Numbers Decimal Numbers

## Rationale

In this step, pupils will build on their understanding of decimal numbers by reading and writing numbers with hundreds, tens and ones and tens and ones with up to 3 decimal places using decimal notation. They will continue to read and write numbers from left to right. When reading numbers, they will use the vocabulary 'point' to indicate the decimal point and say all of the numbers before the decimal point as a whole number and all of the decimal numerals as single digits. For example, 796.218 in words is seven hundred and ninety-six point two one eight. They will recognise zero as a place holder when the number is written in numerals and will understand they sometimes say it if it is in a decimal number. For example, 45.09 in words is forty-five point zero nine. *Pupils will continue to place a decimal point between the ones and tenths.*



## Key Stem Sentences

- \_\_\_\_\_ . \_\_\_\_\_ in words is \_\_\_\_\_
- \_\_\_\_\_ in numerals is \_\_\_\_\_ . \_\_\_\_\_



## Key Vocabulary

- point
- tenths / hundredths / thousandths
- zero



## Common Errors or Misconceptions

- Pupils may misunderstand how to read the whole number and decimal. For example, 85.37 in words is eighty-five point thirty-seven or eight five point three seven
- Pupils may misunderstand when to use zero. For example, 6.050, instead of 6.05



## Key Representations

### Number Grid

9	5	point	7	6	4
---	---	-------	---	---	---

Ninety-five point seven six four in numerals is 95.764

1	0	point	4	9
---	---	-------	---	---

10.49 in words is ten point four nine.

3	hundred	and	1	8	point	0	2	5
---	---------	-----	---	---	-------	---	---	---

Three hundred and eighteen point zero two five in numerals is 318.025

8	hundred	and	6	2	point	7
---	---------	-----	---	---	-------	---

862.7 in words is eight hundred and sixty-two point seven.



## Pupils will FLOURISH if they can...

- accurately read and write numbers with up to 3 decimal places in words.
- accurately read and write numbers with up to 3 decimal places in numerals.
- explain their understanding in multiple ways using their own words and representations.

