

Master Comparing Numbers with 1s and up to 3 Decimal Places

Rationale

In this step, pupils will build on their previous learning of comparing whole numbers by comparing numbers with 1s and up to 3 decimal places. They continue to use the symbols $>$, $<$ and $=$ and the vocabulary 'greater than', 'less than' and 'equal to' in their comparisons. They will work from left to right to compare the digits and explain why a number is greater than or less than another using 'more' and 'fewer'. Pupils will demonstrate their understanding of comparing decimal numbers through the use of number lines. They will also develop their learning by writing missing digits to complete comparison statements.



Key Stem Sentences

- ___ is greater than / $>$ ___
- ___ is less than / $<$ ___
- ___ is equal to / $=$ ___
- ___ has more / fewer / no ___s.



Key Vocabulary

- compare
- greater than / less than / equal to
- more / fewer / no



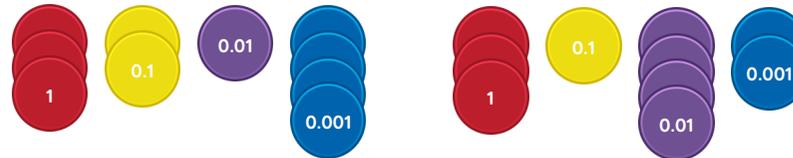
Common Errors or Misconceptions

- Pupils may use the vocabulary or symbols incorrectly to compare two decimal numbers.
- Pupils may misread the place value of digits.



Key Representations

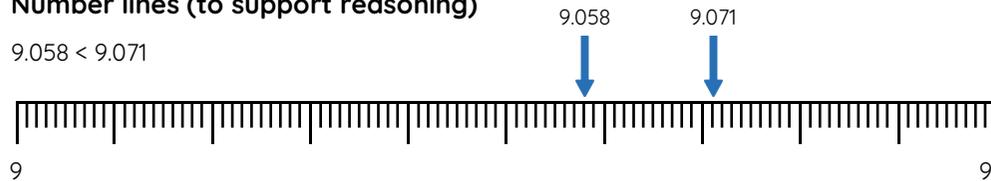
Place value counters



3.214 has more tenths than 3.142. 3.214 is greater than 3.142

Number lines (to support reasoning)

$$9.058 < 9.071$$



Place value charts with digits

1s	0.1s	0.01s	0.001s
6	7	8	1
6	7	8	5

6.781 has fewer thousandths than 6.785

6.781 is less than 6.785



Pupils will FLOURISH if they can...

- identify a decimal number that is greater than, less than or equal to another.
- use a number line to show decimal numbers greater than, less than or equal to another.
- write digits to complete comparison statements.
- begin to explain their understanding using their own words and representations.

