Interpret, compare and order numbers with more than 2 decimal...

interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number line

Learning intention

- interpret, compare and order numbers with more than 2 decimal places, including numbers greater than one, using place value understanding; represent these on a number...

Teach and model

- making models of decimals including tenths, hundredths and thousandths by subdividing materials or grids, and explaining the multiplicative relationship between...
- renaming decimals to assist with mental computation; for example, when asked to solve 0.6 ÷ 10 they rename 6 tenths as 60 hundredths and say, “if I divide 60...
- using a number line or number track to represent and locate decimals with varying numbers of decimal places and numbers greater than one and justifying the...

Check understanding

- Explain the main idea in interpret, compare and order numbers with more than 2 decimal... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.