

Reading 0.23 as 'zero point twenty three' can create problems when comparing decimals as it leads to the reasoning that 23 is greater than three so 0.23 is greater than 0.3.

Videos: Multiplying and dividing by 10 with decimals Videos: Multiplying and dividing by 100 with decimals

A common misconception for pupils is to write three hundredths as 0.3 or to be unsure on the value of a zero in decimals such as 0.3, 0.03, 3.0, 3.00, 3.03, 3.3, 0.33. Allow pupils time to explore and internalise the impact of the position of zeros within decimal numbers.

Video: Common decimal

difficulties

Video: Comparing decimals

## Rounding decimals to the nearest whole number

- L4 Round decimals with one decimal place to the
- L5 Round to the nearest whole number in order to
- Number lines are the chosen representation when rounding, where pupils explore how the decimal sits on a number line in relation to other numbers. There is a focus on pupils explaining 'why' and 'how' they have
- ? How do you encourage those with procedural strategies to explain how their strategy works? ? Are pupils fluent in their understanding of rounding? Can they give a range of possible answers?