

Master Ordering Unit Fractions

Rationale

In this step, pupils build on their understanding of comparing the relative sizes of two unit fractions by ordering three unit fractions. They will continue to draw upon number line representations and the significance of the denominator to find the greatest and smallest unit fractions in a given set, including those presented abstractly. Pupils will then place the fractions in ascending or descending order.



Key Stem Sentences

- The greatest unit fraction is ____
- The smallest unit fraction is ____



Key Vocabulary

- unit fraction / numerator / denominator
- order
- greatest / smallest
- ascending / descending order



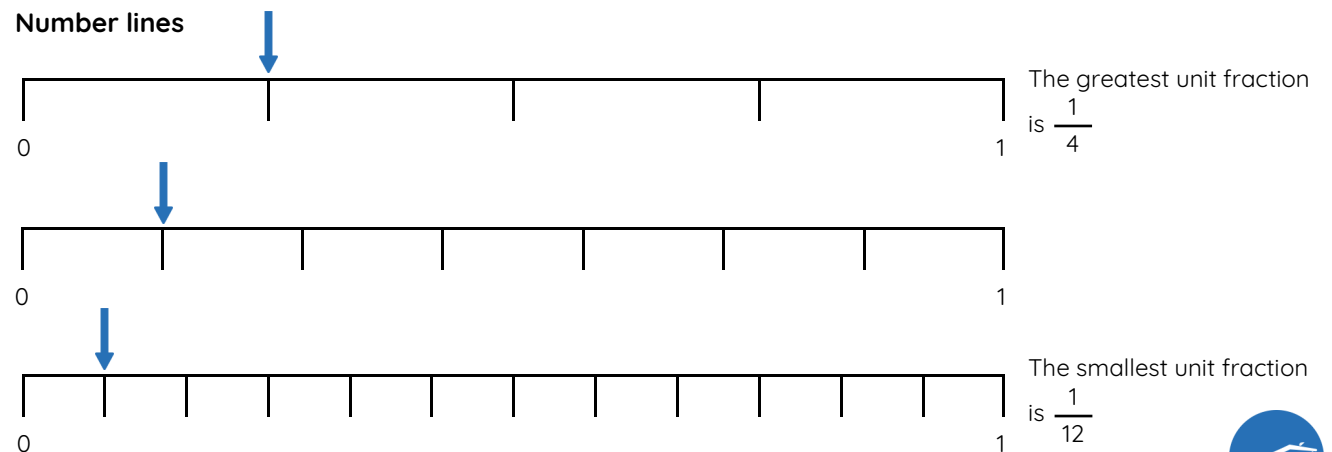
Common Errors or Misconceptions

- Pupils may incorrectly order fractions that are close in value, especially if visualising. For example, the relative sizes of $\frac{1}{9}$ and $\frac{1}{10}$ are similar when presented on a number line.



Key Representations

Number lines



Pupils will FLOURISH if they can...

- identify the greatest and the smallest unit fractions in a given set.
- accurately order three fractions in ascending or descending order.
- understand the significance of the denominator in determining the size of the unit fraction.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and mathematical proof.

