

Master Recognising Tenths in Decimal and Fractional Form

Rationale

In this step, pupils will build upon their understanding of tenths as decimals and fractions. They will use number lines to recognise the equivalence of tenths in decimal and fractional form, initially using a separate number line for each form before progressing to recognising both on one number line from 0 to 1 with 10 unmarked intervals.

Pupils will develop their learning by converting tenths as decimals to fractions and vice versa abstractly, without the support of the number line.



Key Stem Sentences

- ___ tenth(s) as a decimal is ___
- ___ tenth(s) as a fraction is ___
- ___ is equivalent to ___



Key Vocabulary

- tenths
- decimal
- fractional
- equivalent



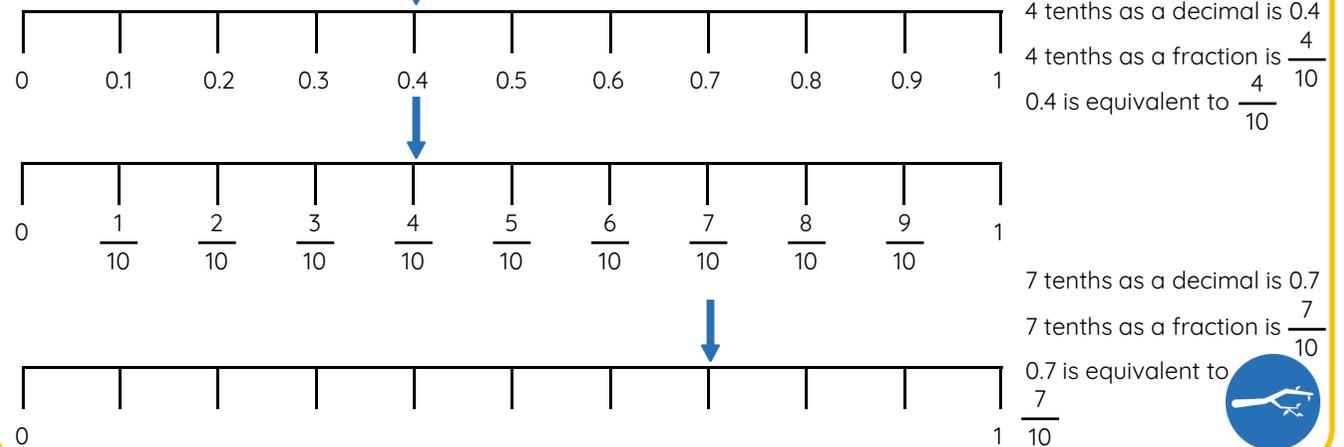
Common Errors or Misconceptions

- Pupils may struggle with the place value of tenths. For example, 3 tens is equivalent to 0.3
- Pupils may struggle to recognise the equivalent fraction when given the decimal form. For example, 0.5 is equivalent to $\frac{0}{5}$



Key Representations

Number lines



Pupils will FLOURISH if they can...

- write fractions given in tenths in decimal form.
- write decimals given in tenths in fractional form.
- recognise tenths in decimal and fractional form in the context of place value.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and representations.

