# Master Tenths on a Number Line as Decimals

## Rationale

In this step, pupils will develop their understanding of tenths as decimals through the use of number lines. They will learn how to record tenths in numerals and will be introduced to the decimal point for the first time.

Pupils will label, identify and estimate where the decimal numbers 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, and 0.9 are placed on a variety of simple number lines.

## Key Stem Sentences

- ___ tenth(s) in numerals is ___
- The value of each interval is ___
- ___ is here on the number line.
- ___ is near to ___ / between ___ and ___

## Key Vocabulary

- number line
- mid-point
- interval
- estimate

## Key Representations

### Number lines



0.7 is here on the number line.

0.4 is near to 0.5
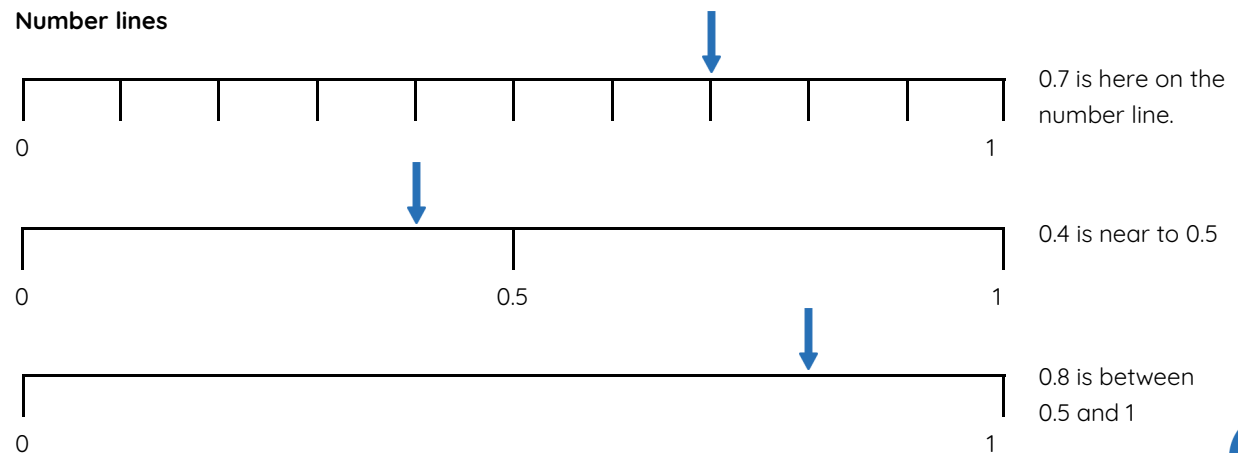
0.8 is between 0.5 and 1

## Common Errors or Misconceptions

- Pupils may have difficulty understanding the size of tenths in relation to each other and place them the incorrect distance from the start or between intervals.

## Pupils will FLOURISH if they can...

- label, identify and estimate the position of tenths on a variety of different number lines.
- begin to explain their understanding using 'Decide, Assess, Back up', given stems and representations.