Master Nearest to / Furthest from with Thousandths

Rationale

In this step, pupils will build upon their understanding of integers, tenths and hundredths that are nearer to or further from a given number and apply it to thousandths.

Pupils will begin by deciding if a number is nearer to or further from 0 or 1. Then, they will decide which multiple of 1, 0.1, 0.01 or 0.001 a number is nearer to or further from.

Learning will be developed further by deciding which number, in a pair or group, is nearest to or furthest from a given multiple of 1, 0.1, 0.01 or 0.001 and which numbers are an equal distance from a multiple of 1, 0.1, 0.01 or 0.001

Key Stem Sentences

- ___ is nearer to / further from ___ than ___
- ___ is nearest to / furthest from ___
- ___ is ___ away from ___
- ___ and ___ are an equal distance from ___

Key Vocabulary

- nearest / nearer to
- furthest / further from
- equal distance from / to

Key Representations

Number Lines

0.821

0 ———————————————— 1

0.821 is nearer to 1 than 0

4.537

4.53 ———————————————— 4.54

4.537 is 0.007 away from 4.53. 4.537 is 0.003 away from 4.54

4.537 is further from 4.537 than 4.54

9.026   9.055

9 ———————————————— 9.1

9.026 is nearest to 9

2.631 2.647

2.6 ———————————————— 2.7

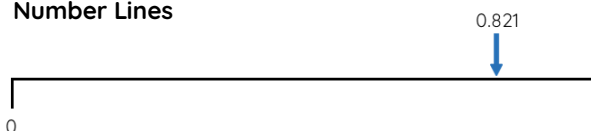2.631 and 2.647 are an equal distance from 2.639

Common Errors or Misconceptions

- Pupils may not have a secure understanding of the comparative size of decimal numbers. For example, they may think that 0.672 is nearer to 0.7 than 0.725
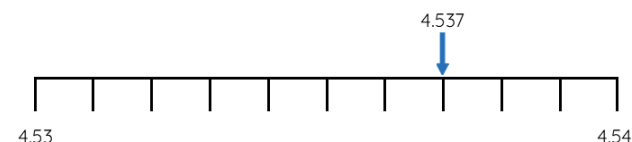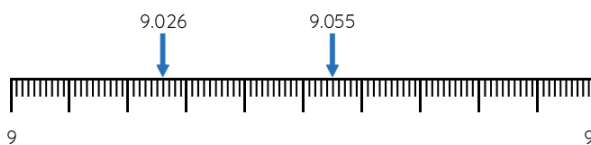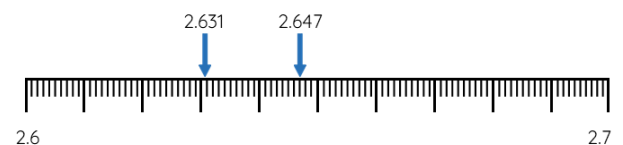
Pupils will FLOURISH if they can...

- accurately identify whether a decimal number with thousandths is nearer to 0 or 1
- accurately identify the multiple of 1, 0.1, 0.01 or 0.001 a decimal number with thousandths is nearer to / further from.
- accurately identify whether decimal numbers with thousandths are nearest to / furthest from / an equal distance from a given multiple of 1, 0.1, 0.01 or 0.001