

Master The Number Line to 10,000,000

Rationale

In this step, pupils will build on their understanding of the number line to 1,000,000 to understand the number line to 10,000,000. They will initially use the number line to label and identify numbers on an empty number line from 0 - 10,000,000 and they will build on prior knowledge to work out the value of the intervals on empty number lines.

Pupils' learning will be extended through estimating numbers on a blank number line from 0 - 10,000,000 and progress to identifying and labelling numbers on number lines with different start and end points in multiples of 1,000,000



Key Stem Sentences

- The value of each major / minor interval is ____
- ____ is here on the number line.
- ____ is the mid-point.
- ____ is near to ____ / between ____ and ____



Key Vocabulary

- number line
- major / minor interval
- mid-point
- estimate / near to / between



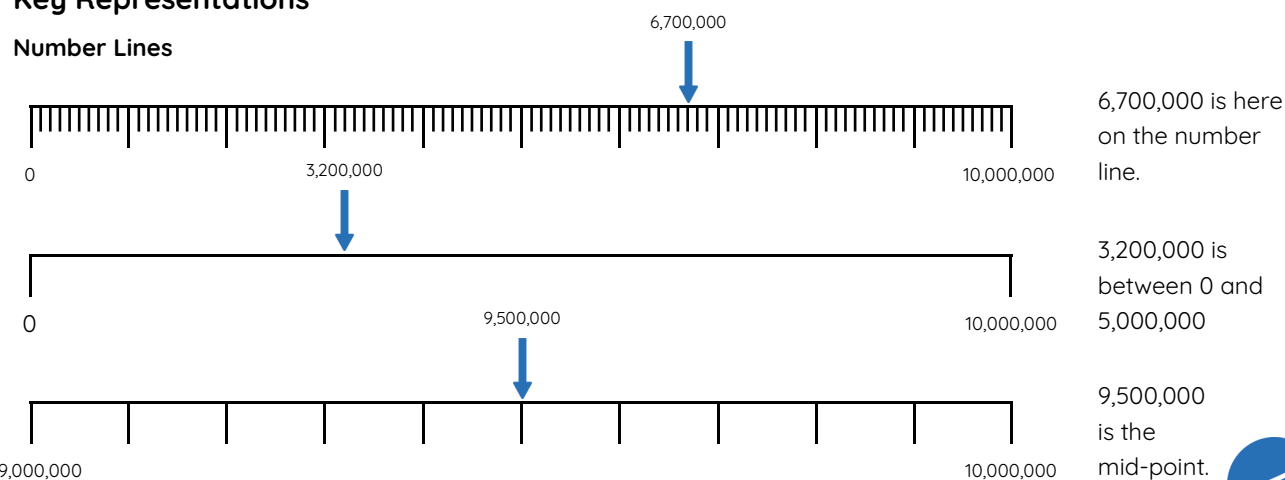
Common Errors or Misconceptions

- Pupils may misread the scales.
- Pupils may misgauge the mid-point.
- Pupils may miscount the intervals.
- Pupils may label the numbers incorrectly.



Key Representations

Number Lines



Pupils will FLOURISH if they can...

- calculate the value of intervals on marked number lines.
- estimate, identify and label numbers on blank and empty number lines from 0 - 10,000,000
- identify and label numbers on number lines with start and end points in multiples of 1,000,000
- explain their understanding in multiple ways using their own words and representations.

