

Master Rounding within 10,000,000

Rationale

In this step, pupils consolidate their learning so far by rounding 6 and 7-digit numbers to the nearest 10, 100, 1,000, 10,000, 100,000 and 1,000,000. They will use their previous knowledge of number lines and consider multiples of 10, 100, 1,000, 10,000, 100,000 and 1,000,000 before and after a given number. They will understand the significance of the relevant digit when rounding to the nearest power of 10 to decide whether to round up to the next multiple or down to the previous multiple. Pupils will develop their learning by identifying a range of numbers which round to a specific multiple of 1,000,000



Key Stem Sentences

- The multiples before and after ___ are ___ and ___
- ___ rounded to the nearest ___ is ___
- When rounding to the nearest ___, look at the ___ digit.
- ___ is nearer to the _____ multiple of ___



Key Vocabulary

- nearest / nearer to
- rounded to
- next / previous
- multiple



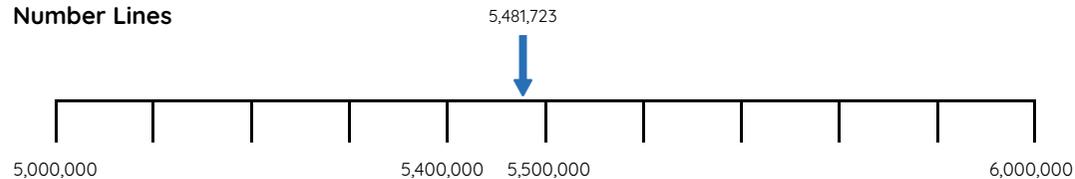
Common Errors or Misconceptions

- Pupils may not write the number rounded to the correct power of 10. For example, 4,587,125 to the nearest 1,000,000 is 5,000,000 not 5,587,125



Key Representations

Number Lines



5,481,723 to the nearest 100,000 is 5,500,000

5,481,723 to the nearest 1,000,000 is 5,000,000



Pupils will FLOURISH if they can...

- identify the multiples of 10, 100, 1,000, 10,000, 100,000 or 1,000,000 before and after a given number.
- accurately round a given number within 10,000,000 to the nearest 10, 100, 1,000, 10,000, 100,000 and 1,000,000
- identify the range of numbers which round to a specific multiple of 10, 100, 1,000, 10,000, 100,000 or 1,000,000
- explain their understanding in multiple ways using their own words and representations.

