

Master Rounding to the Nearest 1,000,000

Rationale

In this step, pupils build on their understanding of rounding to the nearest 10, 100, 1,000, 10,000 and 100,000 by rounding multi-digit numbers to the nearest 1,000,000. They will use their previous knowledge of number lines and consider multiples of 1,000,000 before and after a given number. They will understand the significance of the hundred thousands digit when rounding to the nearest 1,000,000 to decide whether to round up to the next multiple of 1,000,000 or down to the previous multiple of 1,000,000. Pupils will develop their learning by identifying a range of numbers that round to a specific multiple of 1,000,000. For example, numbers between 3,500,000 and 4,499,999 round to 4,000,000.



Key Stem Sentences

- The multiples before and after ___ are ___ and ___
- ___ rounded to the nearest 1,000,000 is ___
- When rounding to the nearest 1,000,000, we look at the ___ digit.
- ___ is nearer to the ___ multiple of 1,000,000



Key Vocabulary

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



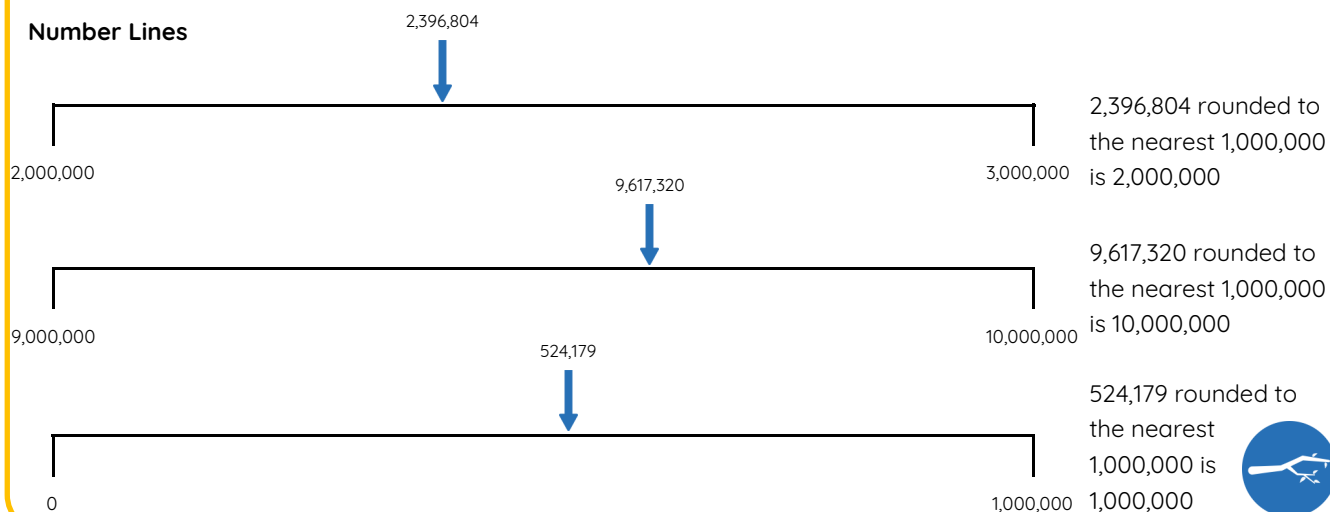
Common Errors or Misconceptions

- Pupils may not write the number rounded to as a power of 10. For example, 7,904,582 to the nearest 1,000,000 is 8,904,582
- Pupils may not realise that numbers can round to the multiple before a given number.



Key Representations

Number Lines



Pupils will FLOURISH if they can...

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

