

Master Rounding to the Nearest 10,000 and 100,000

Rationale

In this step, pupils build on their understanding of rounding to the nearest 10, 100 and 1,000 by rounding multi-digit numbers to the nearest 10,000 and 100,000. They will use their previous knowledge of number lines and consider multiples of 10,000 and 100,000 before and after a given number. They will understand the significance of the thousands digit when rounding to the nearest 10,000 and the ten thousands digit when rounding to the nearest 100,000 to decide whether to round up to the next multiple or down to the previous multiple of 10,000 or 100,000. Pupils will develop their learning by identifying a range of numbers that round to a specific multiple of 10,000 and 100,000. For example, numbers between 45,000 and 54,999 round to 50,000 as the nearest 10,000 and numbers between 850,000 and 949,000 round to 900,000 as the nearest 100,000



Key Stem Sentences

- The multiples before and after ___ are ___ and ___
- ___ rounded to the nearest 10,000 / 100,000 is ___
- When rounding to the nearest 10,000 / 100,000, look at the ___ digit.
- ___ is nearer to the _____ multiple of ___



Key Vocabulary

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



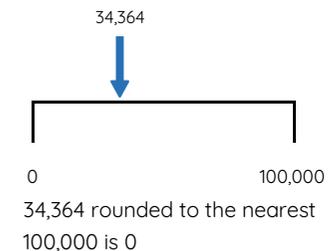
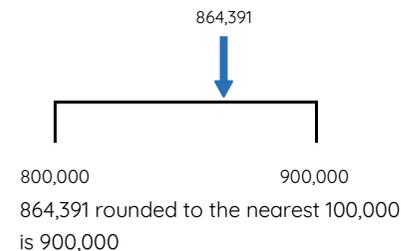
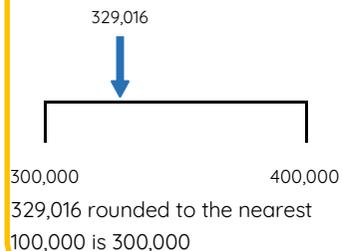
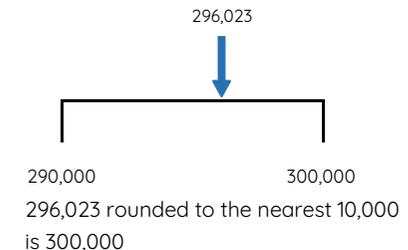
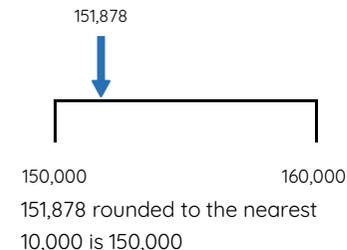
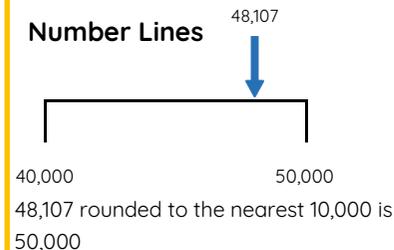
Common Errors or Misconceptions

- Pupils may round numbers such as 19,999 to the nearest 10,000 as 19,990, not 20,000
- 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 10,000 and 100,000 before and after a given number.
- accurately round a given number to the nearest 10,000 or 100,000
- identify numbers that round to a specific multiple of 10,000 or 100,000
- begin to explain their understanding using their own words and representations.

