

# Master Rounding Numbers to 2 Decimal Places

## Rationale

In this step, pupils build on their understanding of rounding decimals with 2 decimal places to the nearest whole number and 1 decimal place in Year 5 by rounding decimals with 3 decimal places to 2 decimal places. They will understand the significance of the thousandths digit when rounding to the nearest hundredth to decide whether to round up to the nearest multiple of 0.01 or down to the previous multiple of 0.01. Pupils will develop their learning by identifying a range of numbers that round to a specific multiple of 0.01. For example, numbers between 3.545 and 3.554 round to 3.55



## Key Stem Sentences

- The multiples before and after \_\_\_ are \_\_\_ and \_\_\_
- \_\_\_ rounded to 2 decimal places is \_\_\_
- When rounding to 2 decimal places, look at the \_\_\_s digit.
- \_\_\_ is nearer to the \_\_\_ multiple of 0.01



## Key Vocabulary

- decimal places
- rounded to / nearest / nearest to
- next / previous / multiple
- hundredth / thousandth



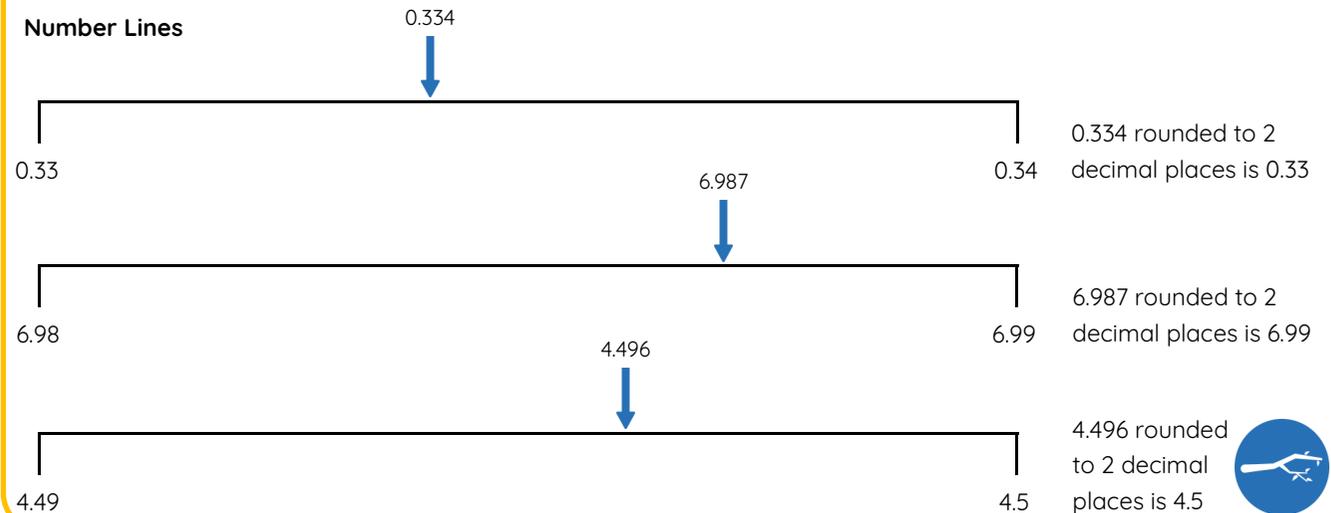
## Common Errors or Misconceptions

- Pupils may round to the wrong decimal place.
- Pupils may add place holders that are unnecessary. For example, 5.491 rounded to 2 decimal places is 5.490. Also, the thousandths digits may not be removed.



## Key Representations

### Number Lines



## Pupils will FLOURISH if they can...

- identify the multiples of 0.01 before and after a given decimal number with 3 decimal places.
- accurately round a given decimal number with 3 decimal places to 2 decimal places.
- identify decimal numbers with 3 decimal places which round to a given multiple of 0.01
- explain their understanding in multiple ways using their own words and representations.

