Master Rounding Numbers to 1 Decimal Place

Rationale

In this step, pupils build on their understanding of rounding decimals with 1 decimal place to the nearest whole number in Year 4 by rounding decimals with 2 decimal places to 1 decimal place. They will understand the significance of the hundredths digit when rounding to the nearest tenth to decide whether to round up to the next multiple of 0.1 or down to the previous multiple of 0.1

Pupils will develop their learning by identifying a range of numbers that round to a specific multiple of 0.1. For example, numbers between 1.55 and 1.64 round to 1.5

Key Stem Sentences

- The multiples before and after ___ are ___ and ___
- ___ rounded to 1 decimal place is ___
- When rounding to 1 decimal place, look at the ___s digit.
- ___ is nearer to the _____ multiple of 0.1

Key Vocabulary

- decimal place
- rounded to / nearest / nearest to
- next / previous / multiple
- tenth / hundredth

Key Representations

Number Lines

3.76

3.7   3.8

3.76 rounded to 1 decimal place is 3.8

8.15

8.1   8.2

8.15 rounded to 1 decimal place is 8.2

5.02

5   5.1

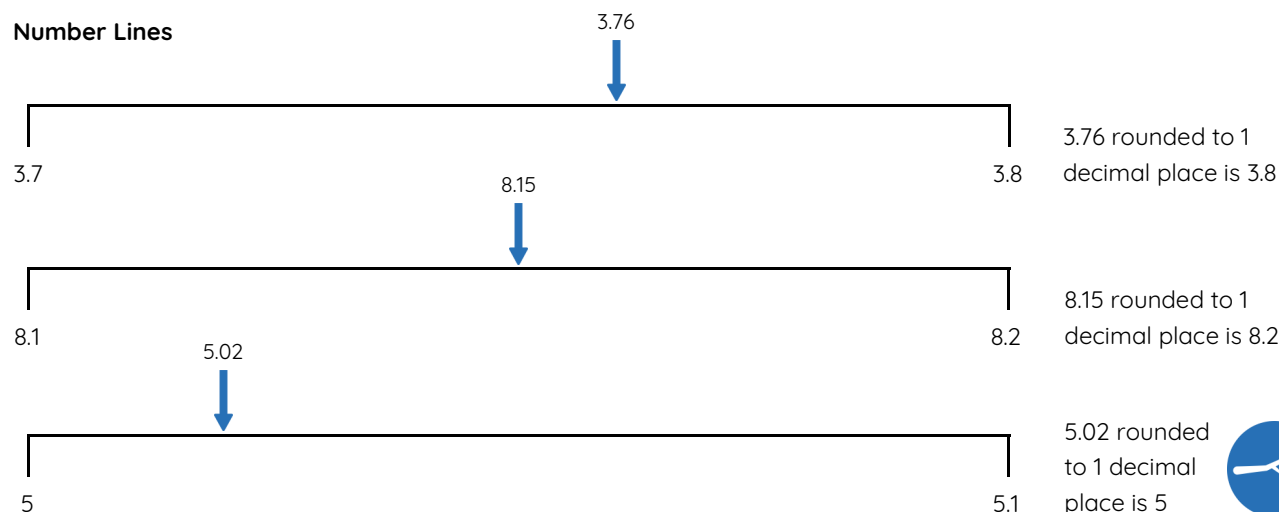5.02 rounded to 1 decimal place is 5

Common Errors or Misconceptions

- Pupils may round the decimal incorrectly.
- Pupils may add place holders that are unnecessary. For example, 1.06 rounded to 1 decimal place is 1.10. Also, the hundredths digits may not be removed..

Pupils will FLOURISH if they can...

- identify the multiples of 0.1 before and after a given decimal number with 2 decimal places.
- accurately round a given decimal number with 2 decimal places to 1 decimal place.
- identify the decimal numbers with 2 decimal places which round to a given multiple of 0.1
- begin to explain their understanding using their own words and representations.