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## Number and Place Value

## Lesson sequence

Reading and writing numbers to 10,000,000
Powers of 10
Comparing and ordering integers
Rounding any integer
Negative numbers

|  | Vocabulary revision |
| :--- | :--- |
| - Represents | - Above/below zero |
| - Part | • Decimal |
| - Partition | - Decimal point |
| - Thousands | • Decimal place |
| - Approximate | - Hundreds of |
| - Approximately | thousands |
| - Thousands | - Millions |
| - Ten of thousands | •Thousandths |
| - Integer | • Linear sequence |
| - Positive | • Powers of 10 |
| - Negative |  |

## Vocabulary revision

- Represents

Thousands

- Approximate
- Approximately
- Thousands
- Ten of thousands
- Integer
- Positive
-Negative


## Sticky learning

## New Knowledge

- To know place value up to $10,000,000$
- To know that orders show how many times a number or letter has been multiplied by itself


## New Skills

- To use negative numbers in context, and calculate intervals across zero
- To read, write, order and compare numbers up to 10000000 and determine the value of each digit
- To identify the value of each digit to three decimal places and multiply and divide numbers by 10,100 and 1000 where the answers are up to three decimal places To round any whole number to a required degree of accuracy
- To solve problems which require answers to be rounded to specified degrees of accuracy
- To solve number and practical problems that involve all of the above


## New vocabulary I will learn

- Tens of millions



## Concept Links/Prior Knowledge

- To know the roman numerals up to $M$
- To know place value up to 1,000,000
- To know that if a digit is 0-4, you round the number down and a digit is 5-9, you round it up
- To round decimals with two decimal places to the nearest whole number and to one decimal place
- To solve number problems and practical problems that involve all of the above
- To interpret negative numbers in context,
- To count forwards and backwards with positive and negative whole numbers, including through zero
- To count forwards or backwards in steps of powers of 10 for any given number up to 1000000
- To read, write, order and compare numbers to at least 1000000 and determine the value of each digit
- To read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
- To round any number up to 1000000 to the nearest $10,100,1000,10$ 000 and 100000

