#### Maths - Year 6

# Number and the Number System 1: Working with numbers beyond a million and decimals

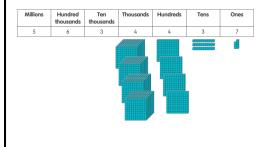
Key Vocabulary		
Place value terms	Ten million, million, hundred thousand, ten thousand, thousand, hundred, tens, ones, tenths, hundredths, thousandths.	
Decimal point	A point (small dot) used to separate the whole number part from the fractional part of a number.	
Ascending	Increasing in size.	
Descending	Decreasing in size.	
Interval	The distance between two points or the numbers between two values.	
Rounding	Increasing or decreasing a number or amount to make it closer to (usually) a multiple of ten, or a whole measuring unit, e.g. rounding 353 to 350 or 89 cm to 1 metre.	
Exchange	Transferring digits from one place value column to another to support calculating.	

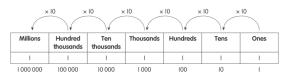
#### **Mathematical Skills**

- Read large and decimal numbers correctly, represent them with images or apparatus and say the value of each digit.
- Notice the pattern of powers of 1 within the number system and can make numbers 10 times bigger or smaller.
- Order whole numbers and explain why one number is larger or smaller than another.
- Recognise the difficulty in positioning large numbers accurately on a number line and suggest rounding to make this more manageable.
- Round large numbers to different degrees of accuracy.
- Recognise that the principle of 'one of these being equivalent to ten of those' continues indefinitely to both the right and left of the decimal point.
- Position decimal numbers correctly on a number line.

### **Mathematical Methods**

- Ordering and comparing numbers up to 10,000,000.





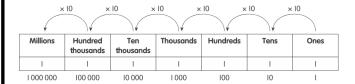


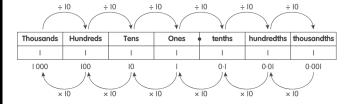
- Consolidating understanding of the value of digits in numbers to 10,000,000.
- Rounding numbers beyond a million and positioning them on a number line.

Country	Population
Sweden	9 675 885
Singapore	5 399 200
Cyprus	1191140
New Zealand	4 534 030
Denmark	5 634 437
Jamaica	2717991
Austria	8 504 850
Fiji	859 178
Ireland	4 593 100



Identifying the value of digits in numbers to three decimal places.





- Order these numbers from smallest to largest.

## Can you..?

- Identify the value of each underlined digit in these numbers. Answer in words.

4 8<u>7</u>2 635

4 293 542

<u>6</u> 385 293

5295·0<u>2</u>8

- Identify the value of each underlined digit in these numbers. Answer in words.

3028·40<u>9</u>

<u>4</u>81·276

34 333 433

43 344 334

34 433 433

43 433 443

33 434 334