### Year 5

# 5.1 Place Value

#### National curriculum objectives:

- read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit
- count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero, including application to temperature
- round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000

## Key Vocabulary

number, numeral zero, none equal to, equivalent to, is the same as more, less most, least tally many odd, even multiple of, factor of, factor pair sequence, continue, predict, pattern pair, rule relationship next, consecutive > greater than < less than  $\geq$  greater than or equal to ≤ less than or equal to Roman numerals integer, positive, negative above/below zero, minus negative numbers formula divisibility square number prime number ascending/descending order place, place value stands for, represents exchange the same number as, as many as more, larger, bigger, greater fewer, smaller, less fewest, smallest, least most, biggest, largest, greatest

# Possible assessment questions:

Using all of the digits from 0 to 9, write down a 10-digit number.

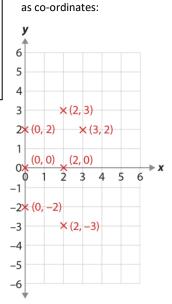
What is the largest number you can write?

What is the smallest number you can write?

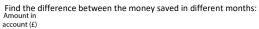
Write down the number that is one less than the largest number. Write down the number that is one more than the smallest number.

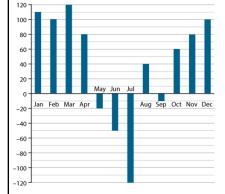
What could the missing values be?

Date	Paid in	Paid out	Amount in account
31 December			£150
5 January		£30	£120
10 January		£50	£70
11 January		£100	-£30
12 January	£10		-£20
16 January	£20	£130	-£130



Plotting negative numbers





#### The temperature at 6 a.m. was recorded each day for one week. Day Mon Tues Wed Thurs Fri Sat Sun Temp 1 -1 0 3 2 -2 -3 (°C)

What was the coldest morning?

What was the warmest morning?

What is the difference in temperature between Monday and Tuesday?

Place the recorded temperatures in order from smallest to largest.

#### Key representations:

