



Place Value

What do I need to be able to do?

By the end of this unit you should be able to

- Read, write, order and compare numbers up to ten million
- Round any whole number
- Use negative numbers in context
- Multiply and divide numbers by powers of ten

Keywords

Integers – Whole numbers

Place Value Column – Position of a digit in a number (tens, hundreds...)

Prime Numbers – Numbers that have exactly two factors (itself and one)

Composite Numbers – Numbers that have more than two factors

Rounding – Changing a number to the nearest 10, 100, 1000...

Thousandth – one one-thousandths of a whole (a tiny amount)

Negative Numbers – Number that are less than zero

Decimals – Number that use a decimal point e.g. 0.1 or 4.53

Number up to 10,000,000

When reading and writing numbers up to 10,000,000, read each number in chunks of 'three'.

9,214,543
 million thousand replace each comma with these

This number will be read as:

9 million, two-hundred and fourteen thousand, five hundred and three

Comparing Number

When comparing numbers, compare the largest digit first, then move to the next

The same 9,214,543 The top number is larger
 9,214,321

Multiplying and dividing by powers of 10

When multiplying or dividing numbers by power of 10 (10, 100, 1000, 10000...), the digits stay the same, but their value changes.

Follow the steps below to divide or multiply:

3425 x 100

- 1) Count the 0s in the multiplier (100 in this case).
- 2) Check the operation (x in this case).
- 3) Move the number that many places
- 4) Check the order of the digits. It should be 3, then 4, then 2, then 5.
- 5) Check that your answer is smaller/larger (larger in this case)

34,250

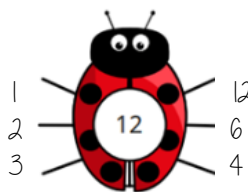
Negative Numbers

Negative numbers are numbers that are less than 0, so -4, -2, -1

When comparing these numbers, remember that the larger the digit, the lower the negative numbers. For example, -40 Celsius is lower than -4 Celsius

Prime and Composite Numbers

When calculating prime and composite numbers, use a factor bug and a prime number table.



Prime Numbers to 50

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50