


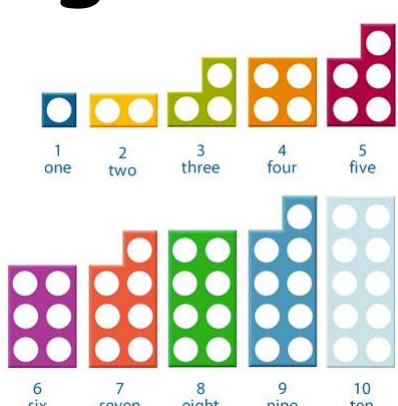


Numicon Workshop


Wednesday 11th October 2017



Using Numicon



1 one	2 two	3 three	4 four	5 five
6 six	7 seven	8 eight	9 nine	10 ten




**Numicon is a maths resource
that uses a series of
structured images to represent
numbers.**



It can be quite difficult to explain to a child
the mathematical concept of 'five'.



But the Numicon shape for 'five' looks like
'one less' than six and 'one more' than four.






Numicon shapes are designed to exploit three key strengths of young children, in order to help them understand number:

- Learning from doing
- Learning from seeing
- Children's strong sense of pattern.



Why Use Numicon?

- Children can understand number relationships
- Children can do calculating without counting
- Children learn mathematical language
- Children learn to make connections and to use and apply their understanding.

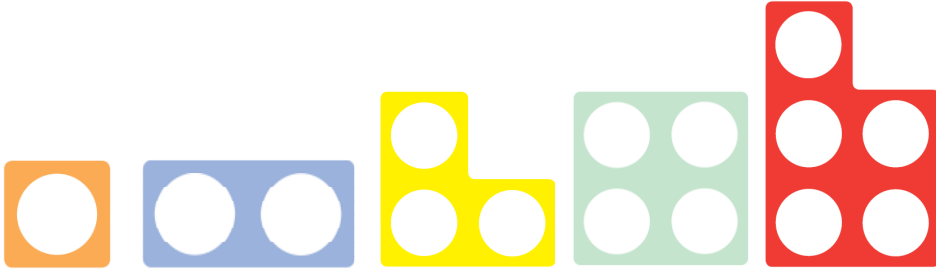



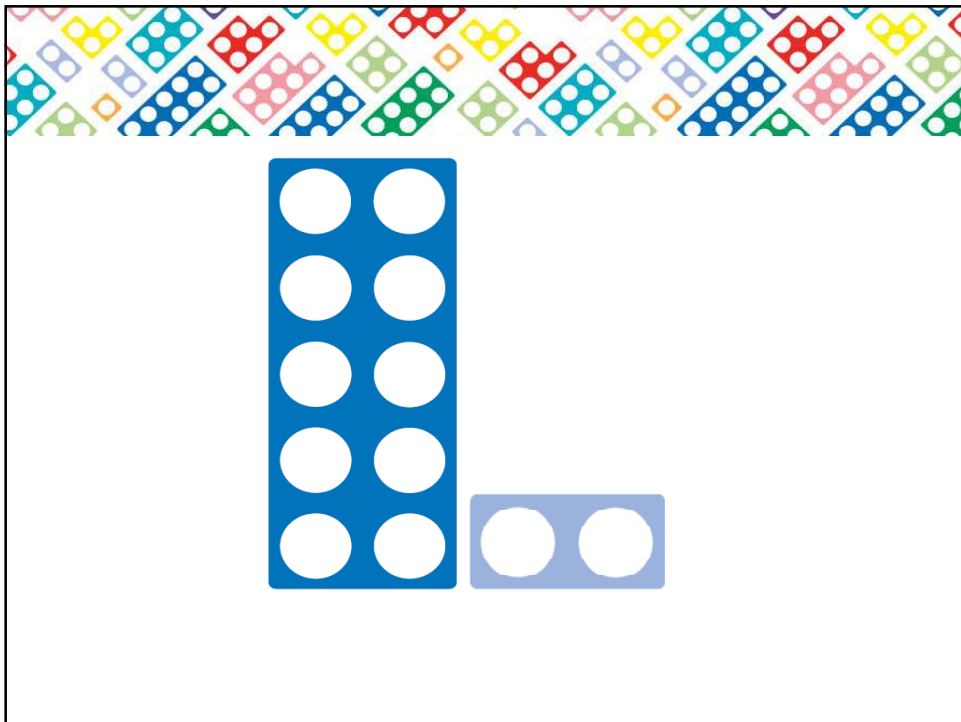
How do we use Numicon?

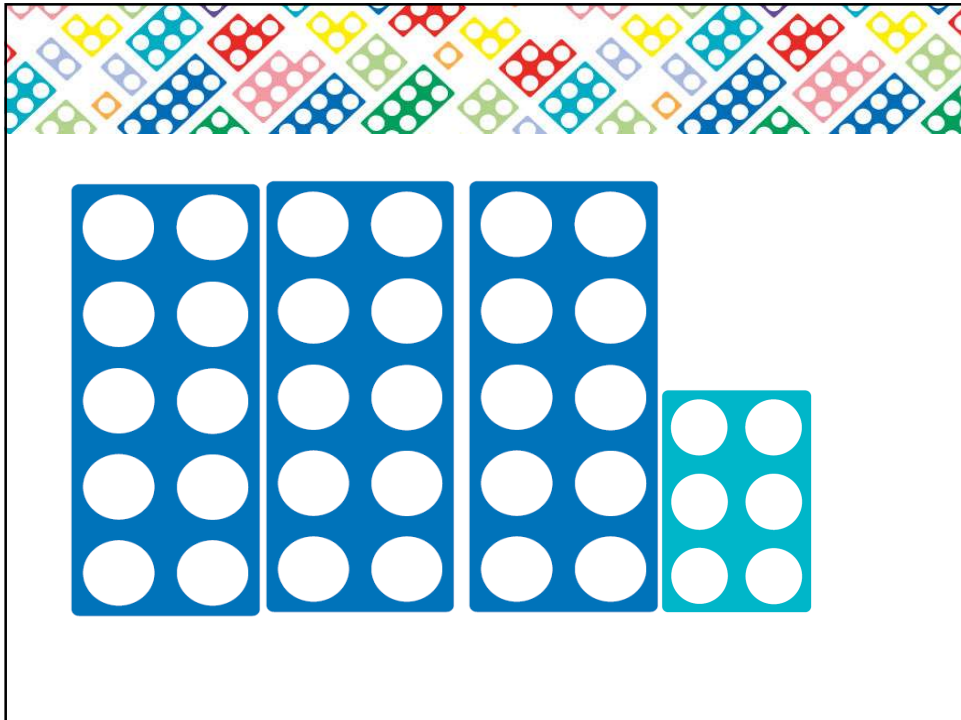
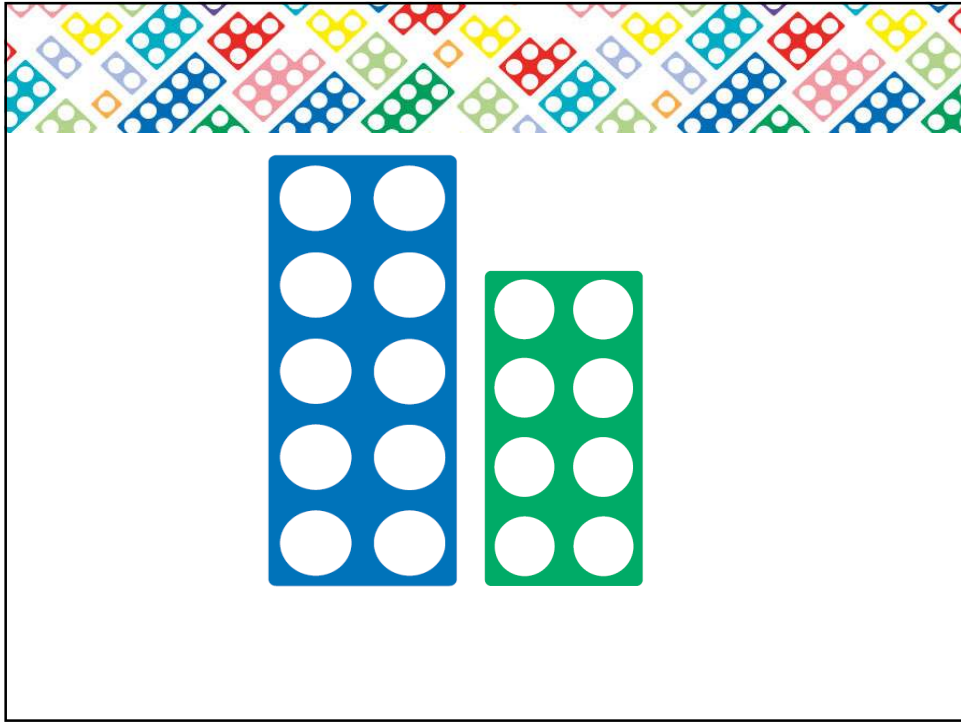
- [Making numbers real](https://www.youtube.com/watch?v=W23e_7DhGOw)
https://www.youtube.com/watch?v=W23e_7DhGOw

.....and further watching at home if you wish.....

- [Numicon at home video](https://www.youtube.com/watch?v=Rw_LgDKwdgI)
https://www.youtube.com/watch?v=Rw_LgDKwdgI
- [The Primary 1,2 guide to Numicon in 7 minutes](https://www.youtube.com/watch?v=EIGN3ekzpjc)
<https://www.youtube.com/watch?v=EIGN3ekzpjc>







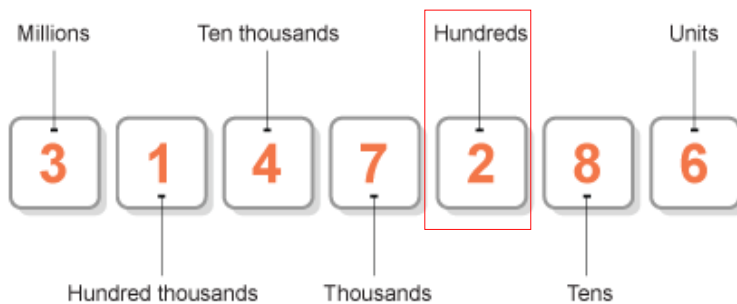
What is place value?

The value of where the digit is in the number, such as units, tens, hundreds, etc.


For example, in 352, the place value of the digit 5 in that number is "tens"

Look at the seven digit number below:


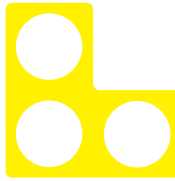
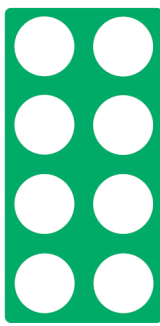
What is the value of the digit 2 in the number 3 147 286 ?




http://www.softschools.com/math/place_value/teaching_place_value/




Addition


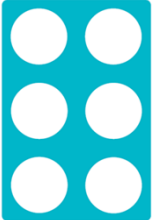
$5 + 3 = 8$



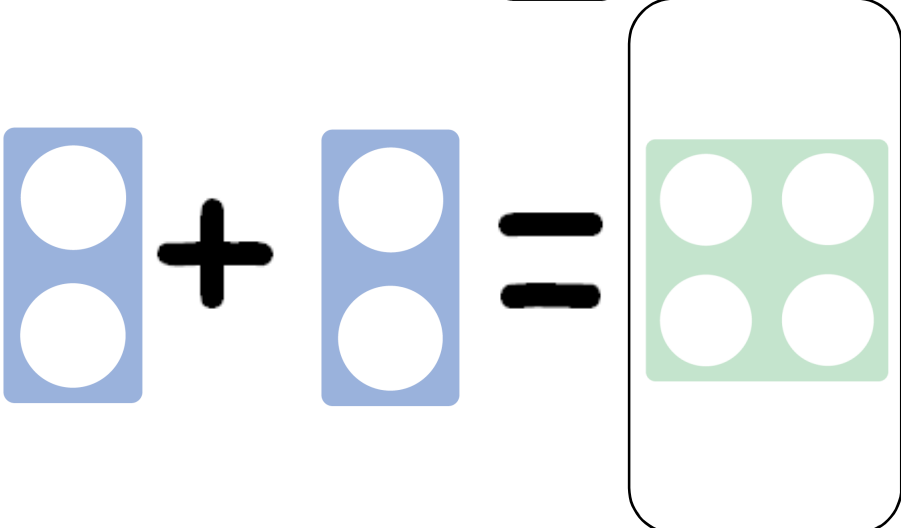
Addition

$$\begin{array}{r} 23 \\ + 14 \\ \hline \\ \hline \end{array}$$


Subtraction

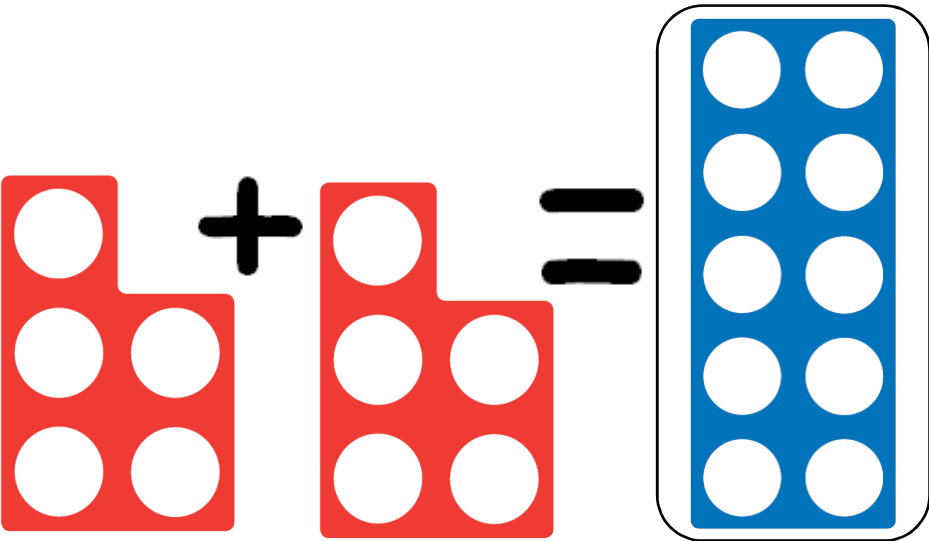

$$6 - 4 =$$

Double 2 is 4




The diagram illustrates the equation $2 + 2 = 4$. On the left, there are two blue vertical strips, each containing two white circles. A plus sign is between them. To the right of the plus sign is an equals sign. Further right is a green rounded rectangle containing four white circles arranged in a 2x2 grid.


Double 5 is 10



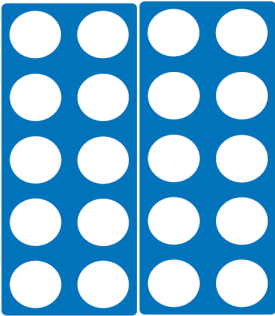
The diagram illustrates the equation $5 + 5 = 10$. On the left, there are two red L-shaped blocks, each containing five white circles. A plus sign is between them. To the right of the plus sign is an equals sign. Further right is a blue vertical strip containing ten white circles arranged in two columns of five.



Multiplication

$$5 \times 3 =$$


Division


$$20 \div 5 =$$

