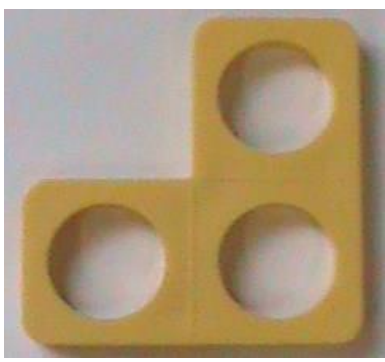


Aim of the workshop



- Introduce the benefits of numicon
- Share activities

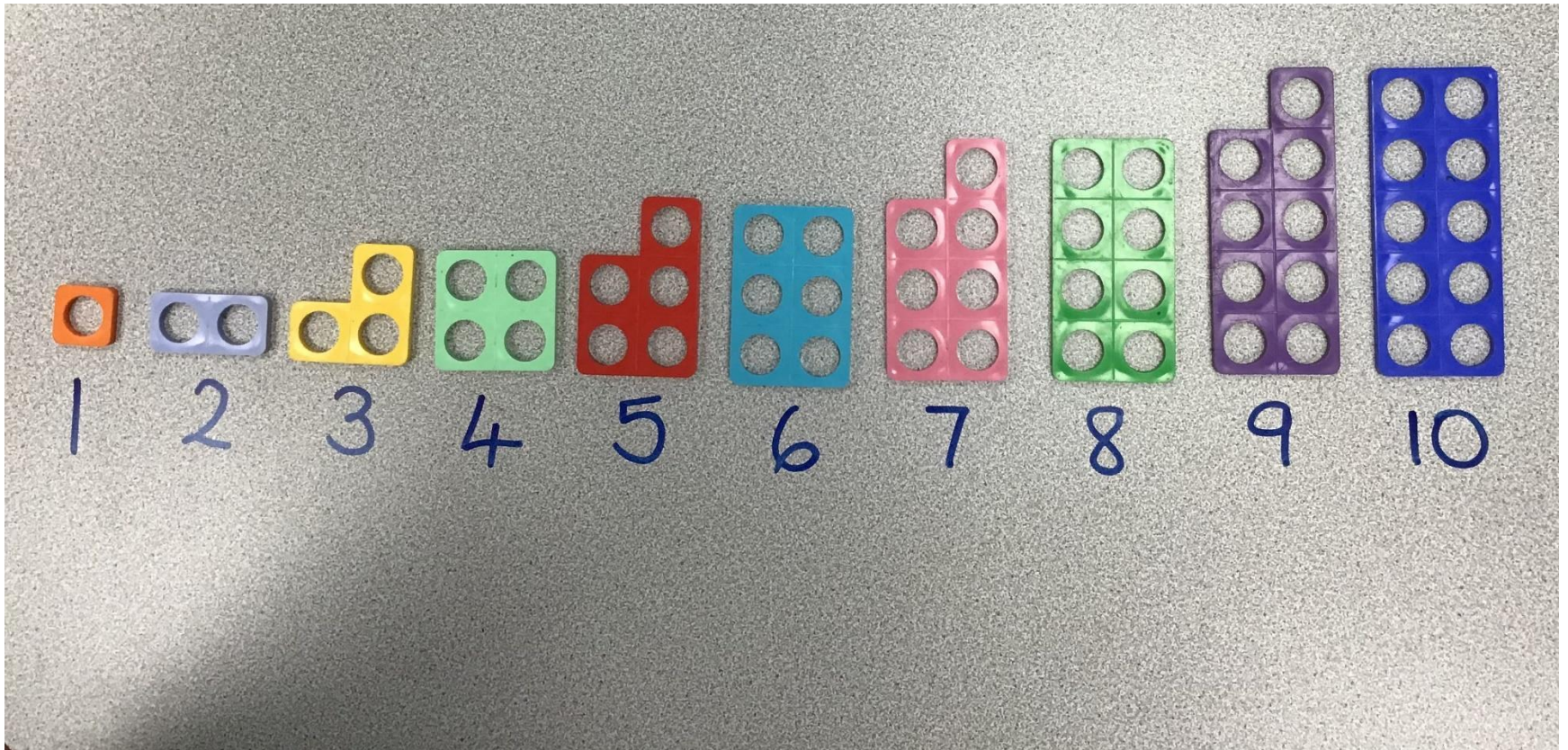


Numicon

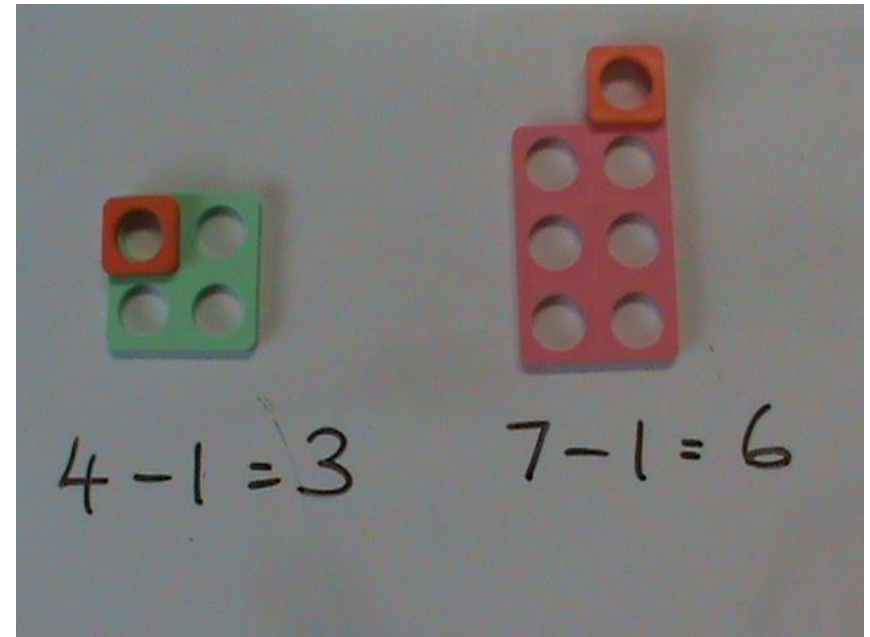


Numicon gives a tactile and visual representation of number ideas.

Familiarisation



Language ideas

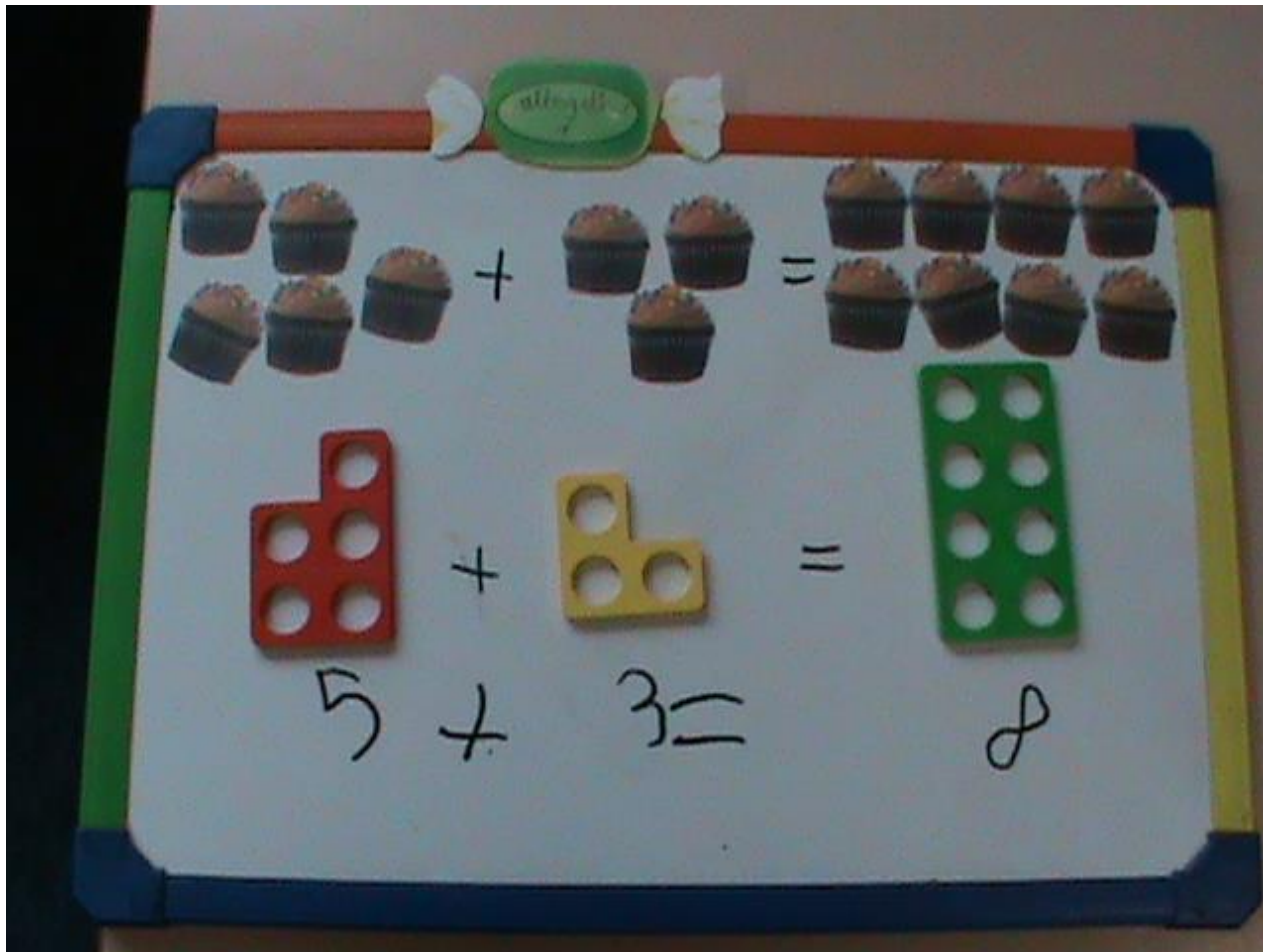




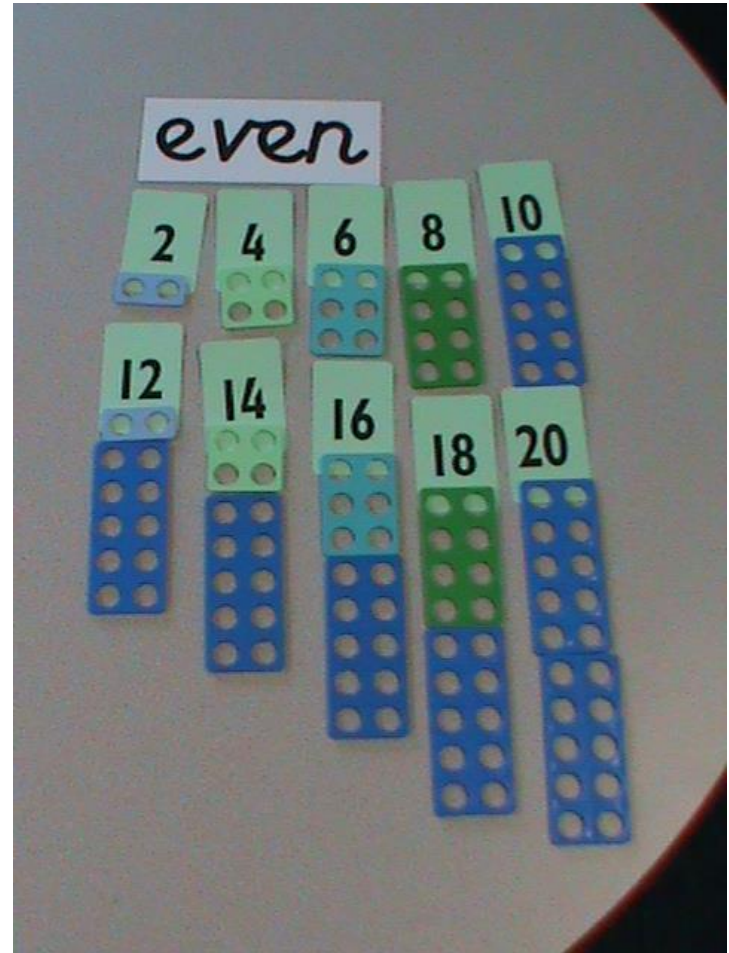
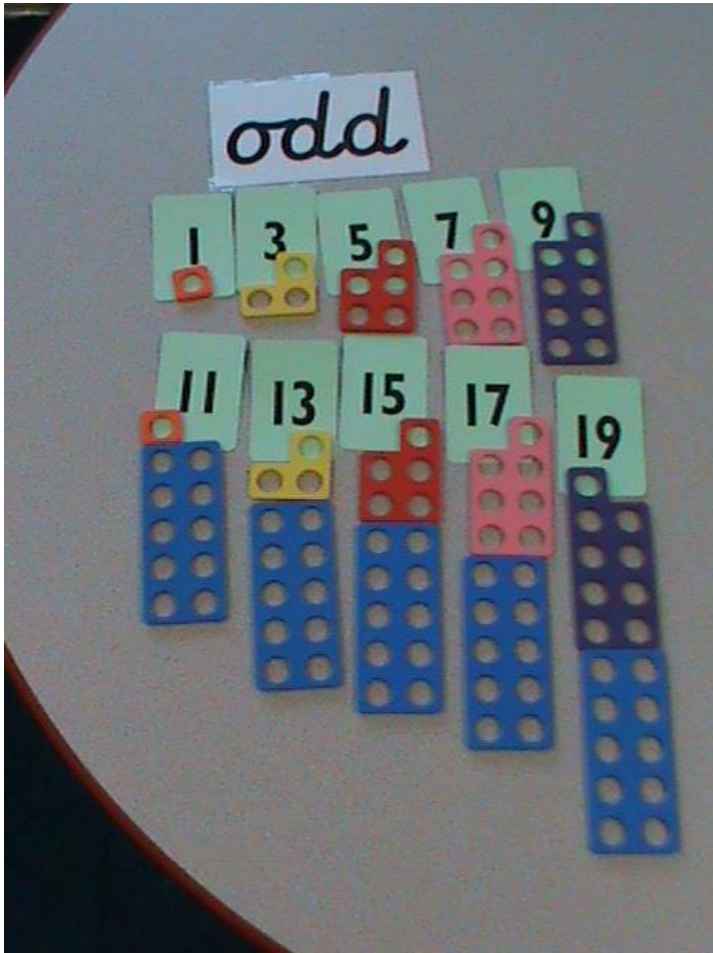
Choose 2 tiles...

- Which tile is more/less
- How many more is than?
- How many less is ... than ..?
- What's the difference between ... and ...?
- Can you find me 2 tiles with a difference of 1?
- Can you find me 2 tiles with a difference of 0?

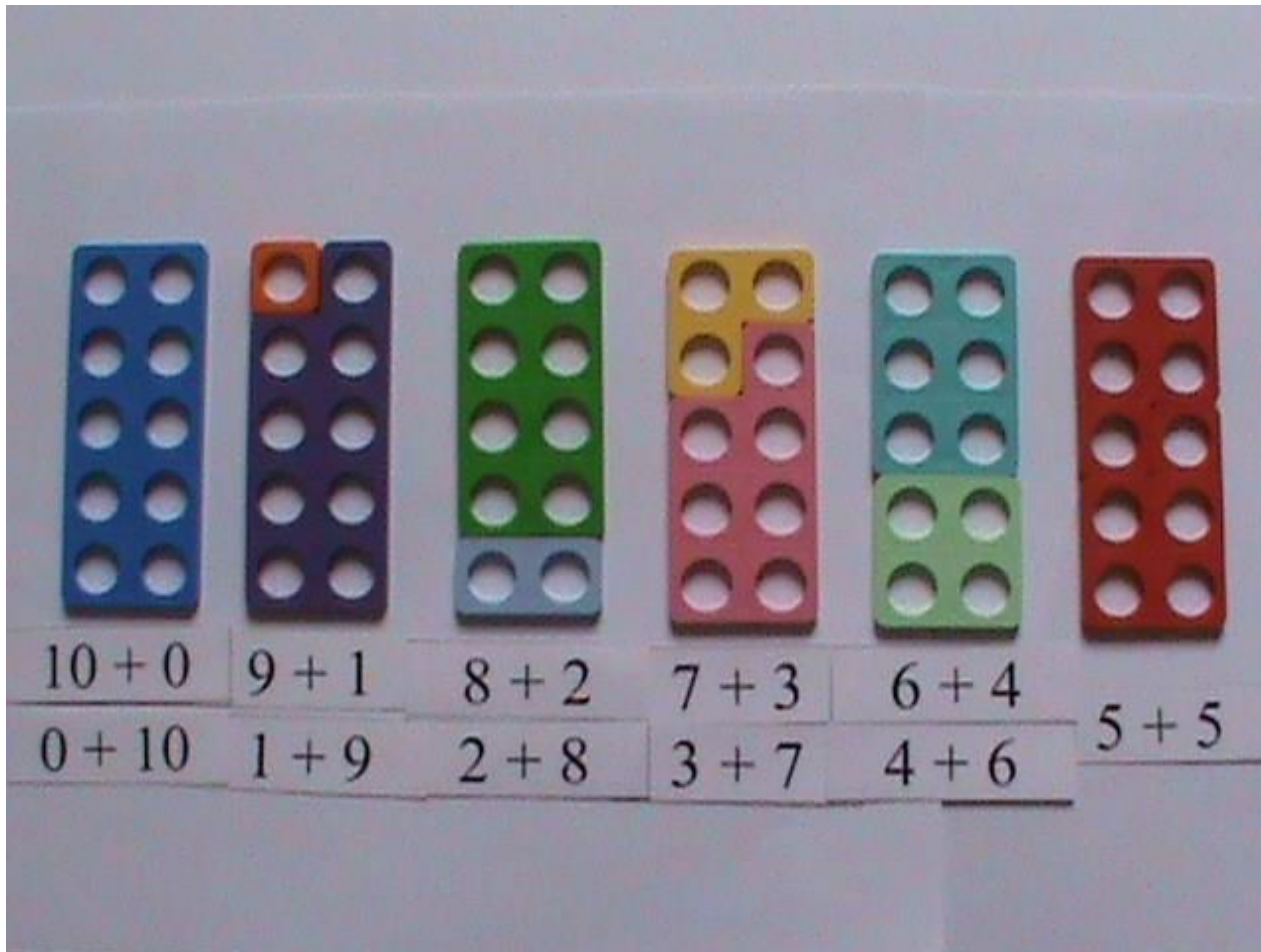
Addition number sentences



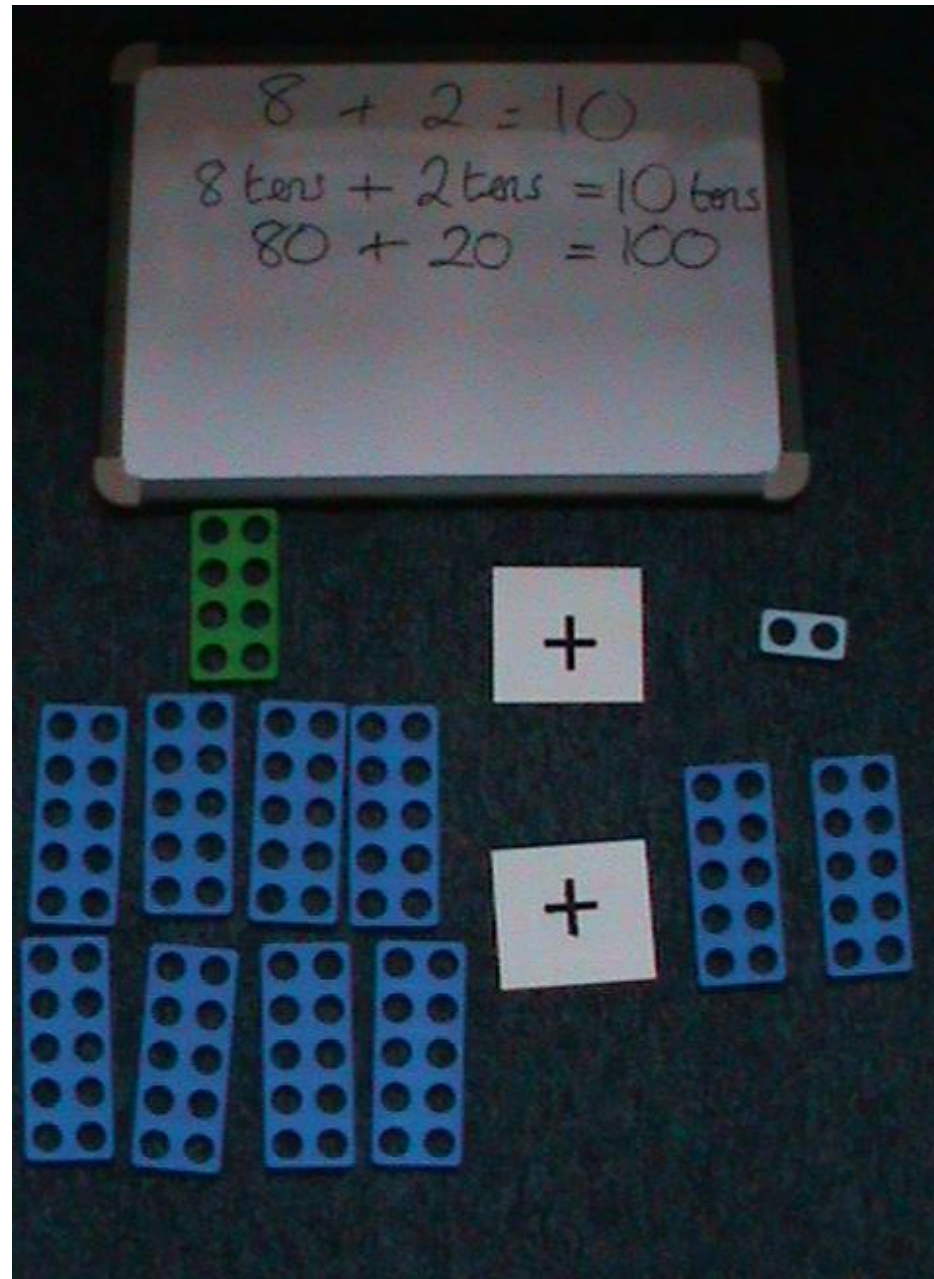
Odds and Evens



Number Facts

A photograph showing six ten-frames used to illustrate addition facts. Each ten-frame is a vertical strip with two columns of five holes. The first frame is blue and completely filled. The second frame is purple with one orange bead in the top-left hole. The third frame is green with two light blue beads in the bottom-left and bottom-right holes. The fourth frame is pink with three yellow beads in the top row. The fifth frame is teal with four light green beads in the bottom row. The sixth frame is red and completely empty. Below each frame are two rows of addition facts.

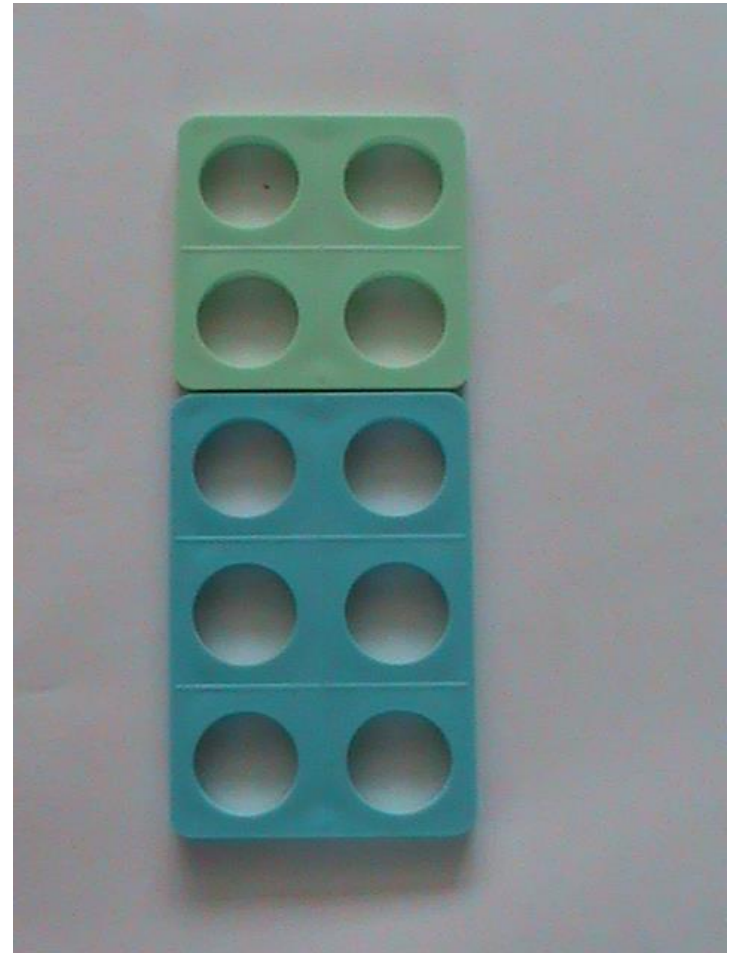
| | | | | | |
|----------|---------|---------|---------|---------|---------|
| $10 + 0$ | $9 + 1$ | $8 + 2$ | $7 + 3$ | $6 + 4$ | $5 + 5$ |
| $0 + 10$ | $1 + 9$ | $2 + 8$ | $3 + 7$ | $4 + 6$ | |

A photograph of a math activity on a dark surface. At the top is a whiteboard with three equations: $8 + 2 = 10$, $8 \text{ tens} + 2 \text{ tens} = 10 \text{ tens}$, and $80 + 20 = 100$. Below the whiteboard are base ten blocks. On the left, there is one green rod (representing 10) and eight blue rods (representing 80). In the center, there are two white squares with a plus sign (+). On the right, there is one white square with two dots (representing 2) and two blue rods (representing 20).

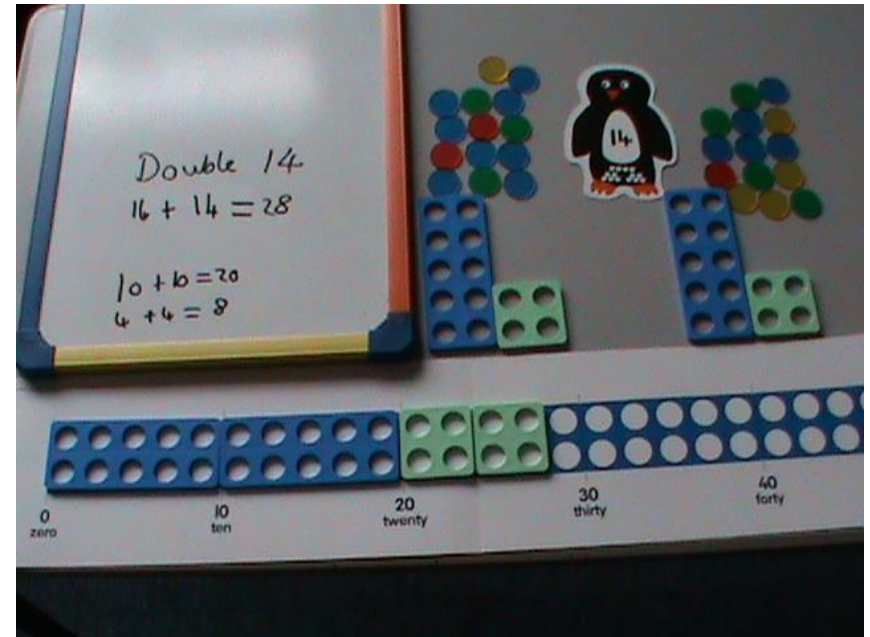
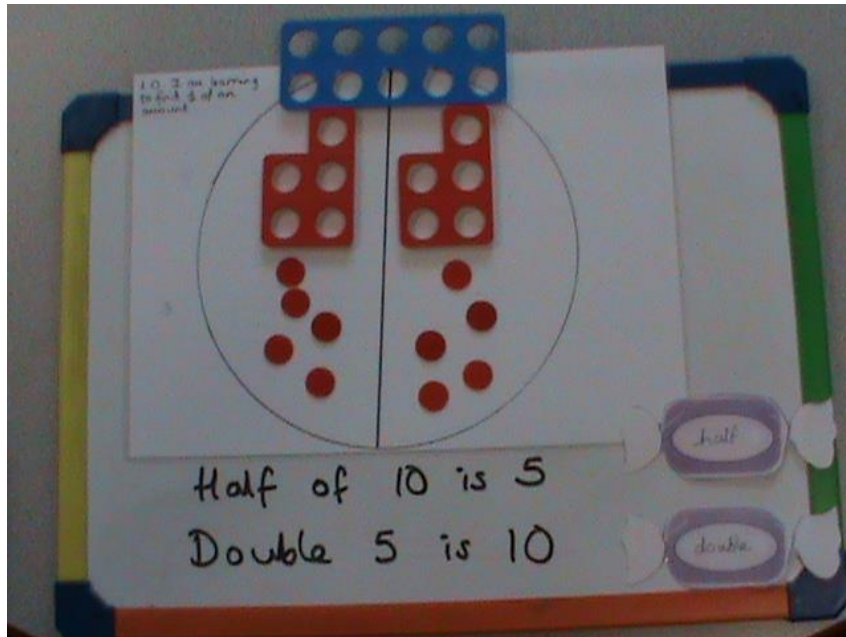
Inverse relation between + and -

- If $6 + 4 = 10$
then $10 - 6 = 4$

*'I have 10 behind my back.
I take away 6. How
much is left behind my
back?'*



Doubles and Halves

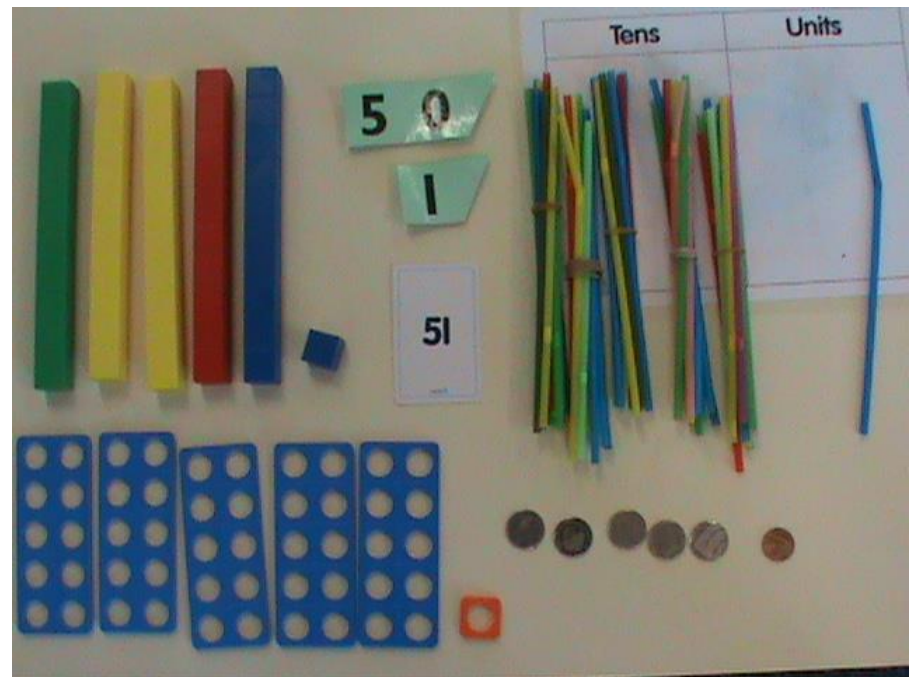
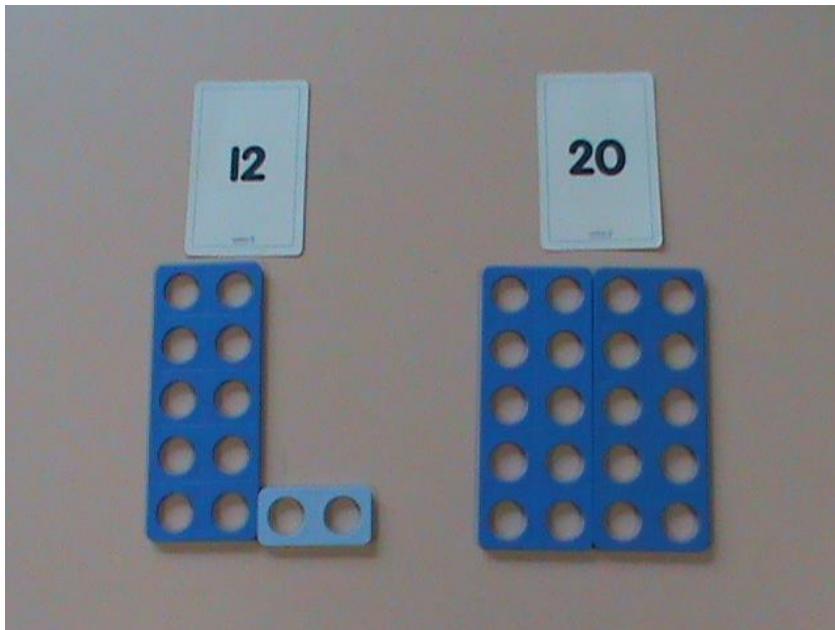


Money





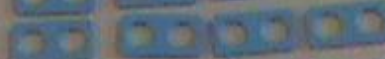
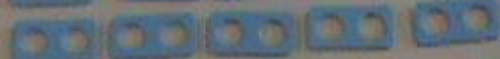
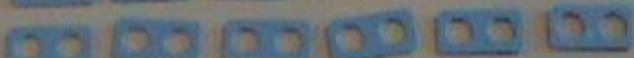
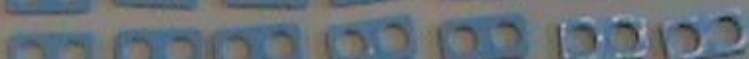
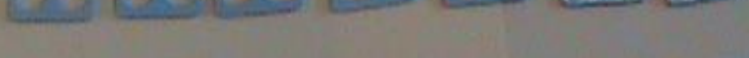
Place Value

Teen and Ty



Multiplication

2 x table

| | |
|--------------------|--|
| $0 \times 2 = 0$ | |
| $1 \times 2 = 2$ |  |
| $2 \times 2 = 4$ |  |
| $3 \times 2 = 6$ |  |
| $4 \times 2 = 8$ |  |
| $5 \times 2 = 10$ |  |
| $6 \times 2 = 12$ |  |
| $7 \times 2 = 14$ |  |
| $8 \times 2 = 16$ | |
| $9 \times 2 = 18$ | |
| $10 \times 2 = 20$ | |
| $11 \times 2 = 22$ | |
| $12 \times 2 = 24$ | |

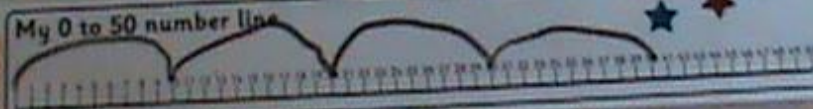
4 people, how many toes?



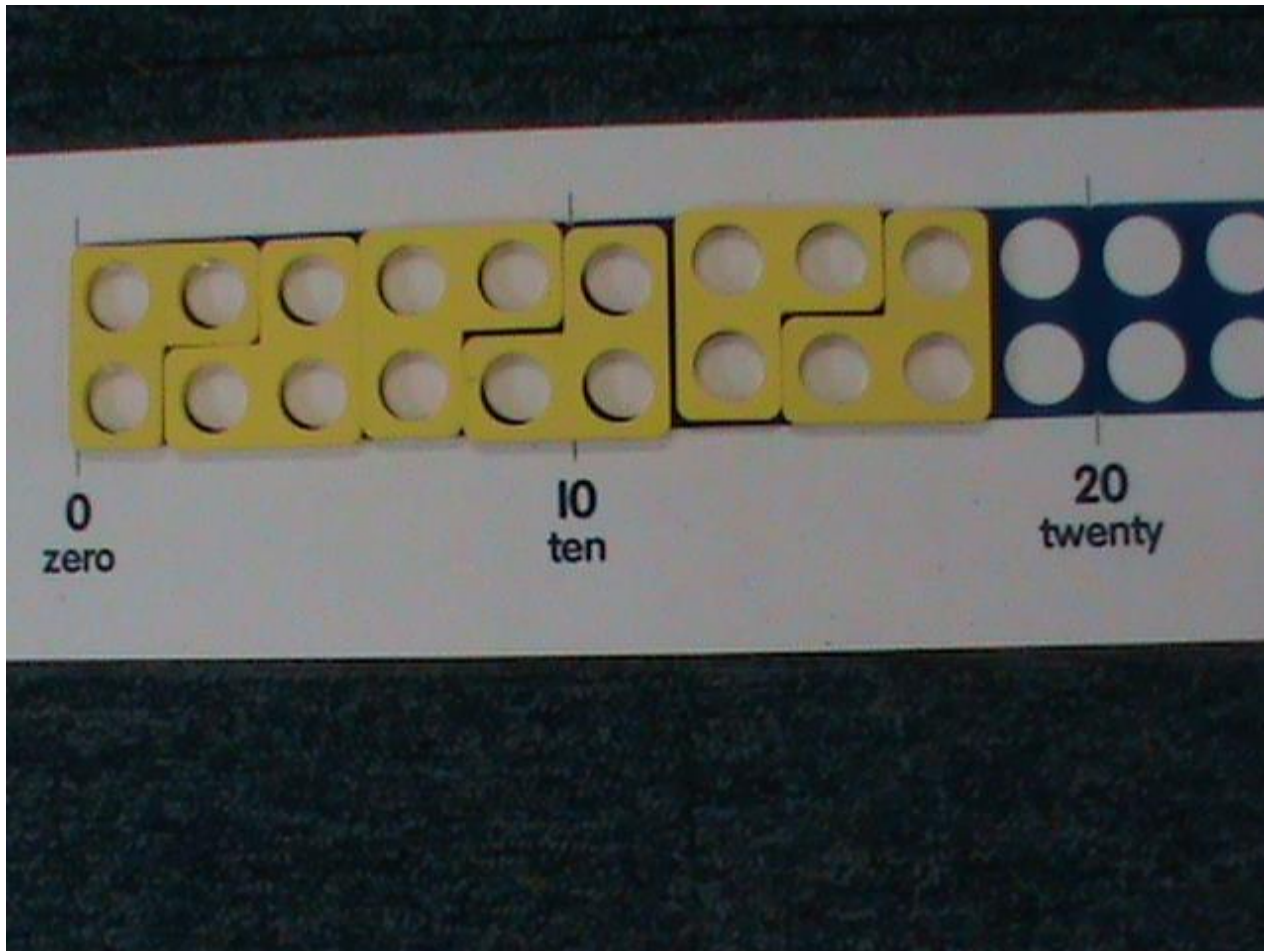
$$10 + 10 + 10 + 10$$

$$4 \times 10 = 40$$

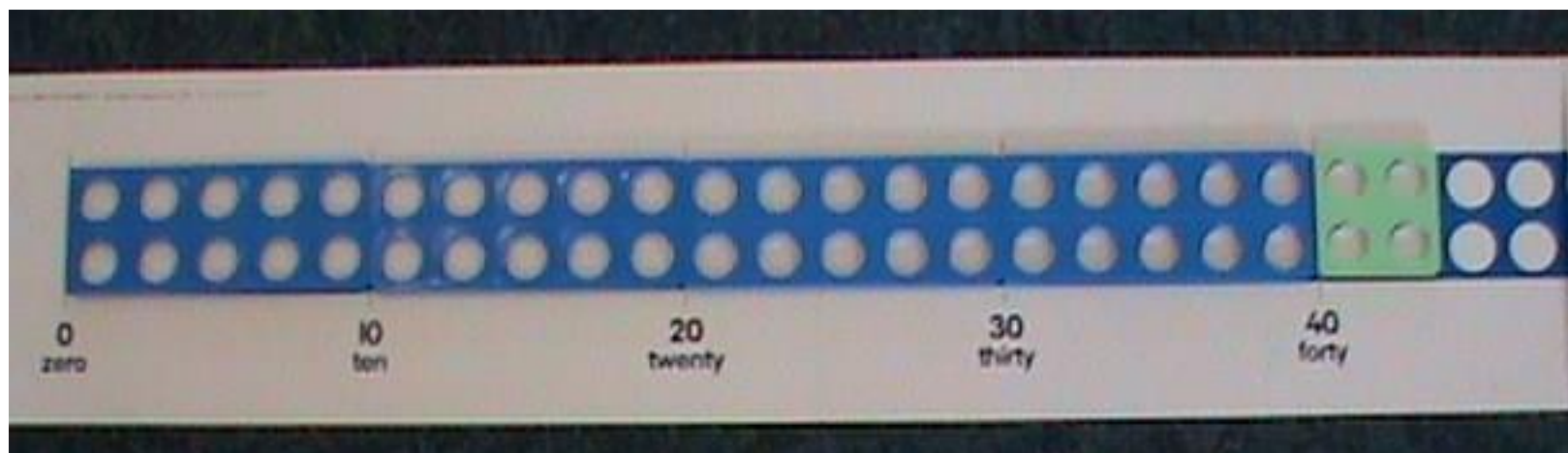
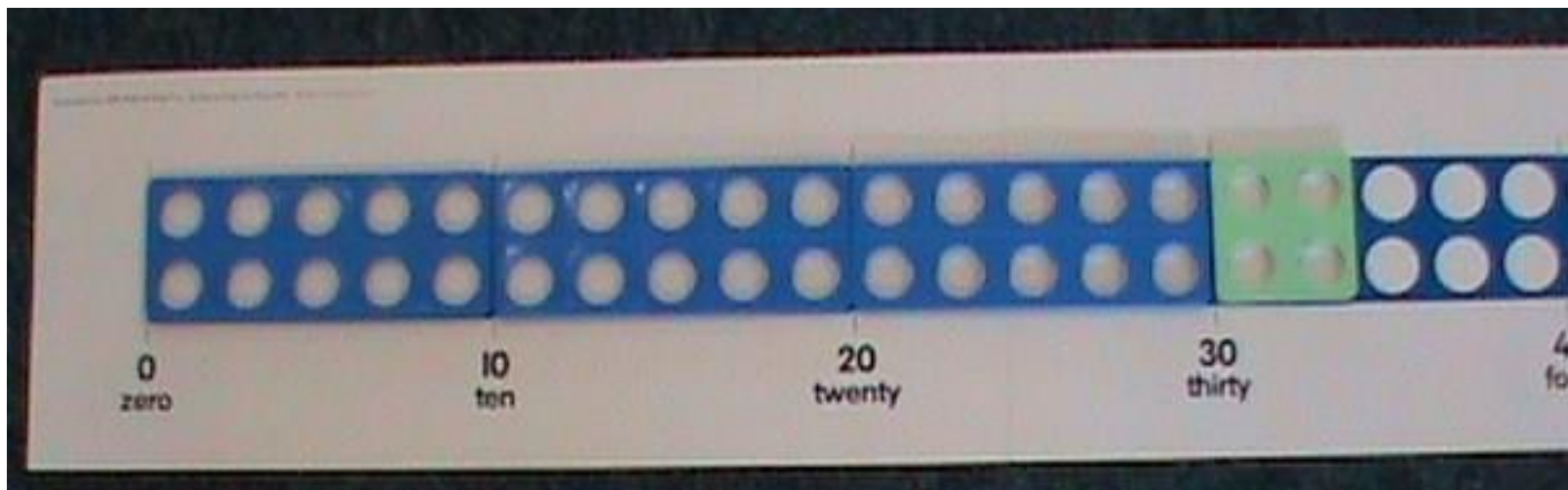
My 0 to 50 number line



Inverse relation between \times and \div



Counting in 10s





A final challenge

- There are four numbers
- Their sum is 10
- Largest minus the smallest equals 2
- The product of the smallest times the largest is odd



www.numicon.com



To summarise.....

- Numicon makes numbers real
- Numicon makes number relationships real
- It's a resource for all children

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