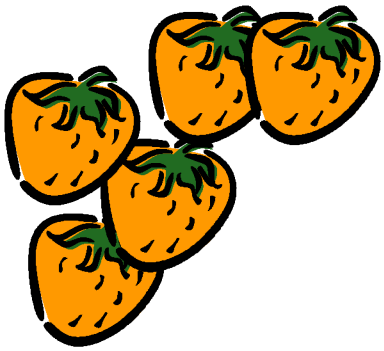
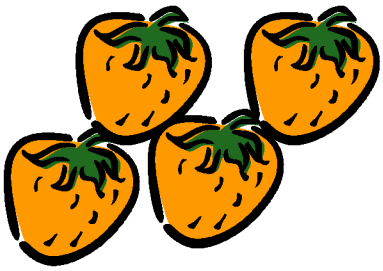
Addition

Stage 1. Counting objects.

Always in the context of a problem/story:



+



5 **4**

Begin by counting the objects first. Count out the objects: 1, 2, 3, 4, 5… 1, 2, 3, 4
Then put them all together and count the objects again, from the start: 1, 2, 3, 4, 5, 6, 7, 8, **9**

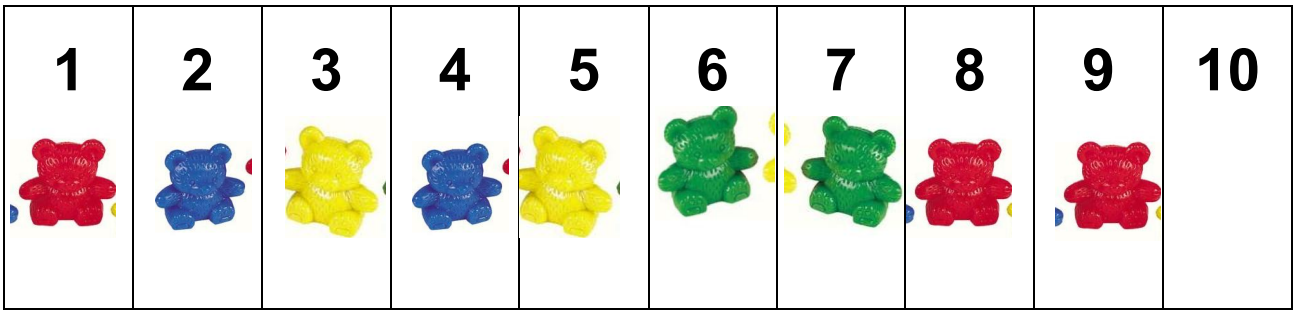
The next step will be to start at the first number they have and then count on (so for 4 + 5, children could start from the smaller number): e.g. 4… 5, 6, 7, 8, **9**

The next step would be to recognise that 5 is the larger number and to count on 4 from there: 5... 6,7,8,**9**

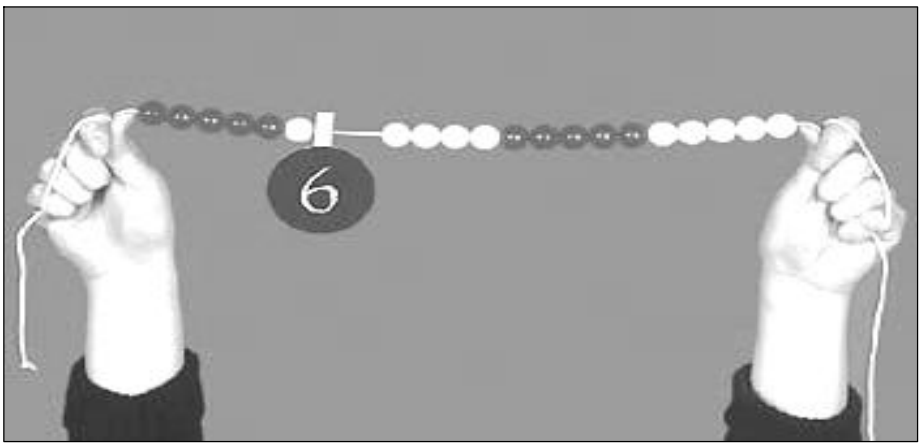
Addition

Stage 2. Using a number track/ number line.

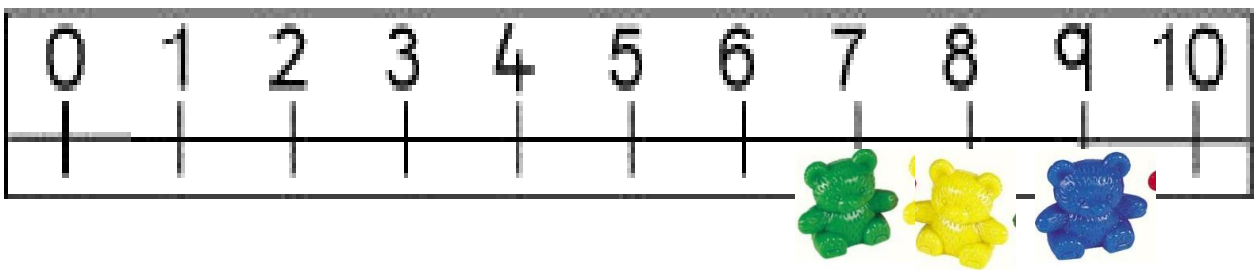
Using a number track/floor tiles, children will put objects onto it, counting objects on each square.



They will also count using other objects, like a bead string. Below six beads have been counted and marked with a peg.



Next, they will move to a structured number line, placing objects on the line to show what we count on: e.g.
6 teddies + 3 teddies, find 6 on the number line, then place the objects to show **what we are adding**.

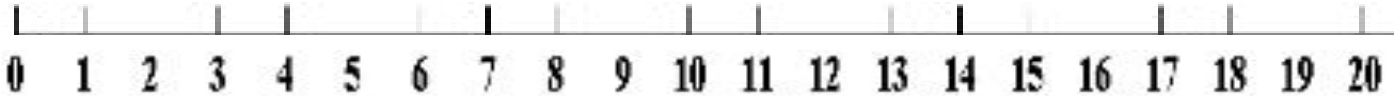


Addition

Stage 3. Using structured and unstructured number lines.

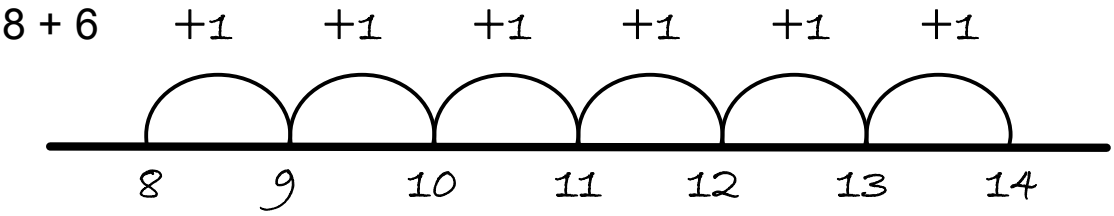
7 + 11

Start with the biggest number on a structured number line, then count the jumps:



7 + 11 = 18

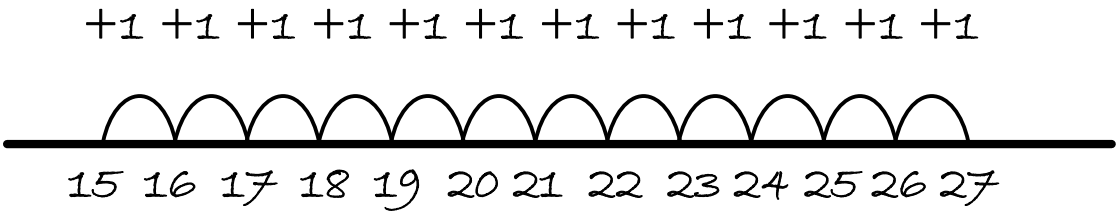
Eventually, children will draw their own empty number lines to do this.



8 + 6 = 14

The next step comes when adding teen numbers. Initially, children will count on in ones.

15 + 12

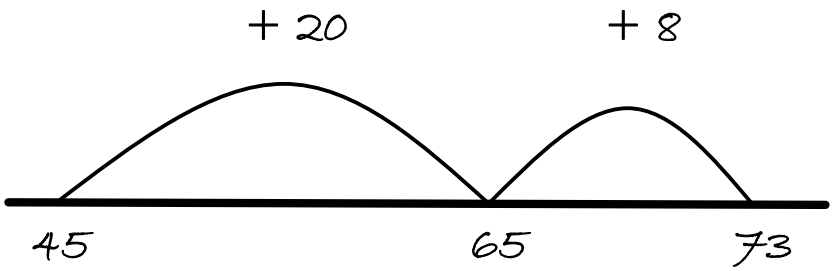


But then may be able to count on a ten and then the remaining ones:

Addition

Stage 4. The Number Line - partitioning

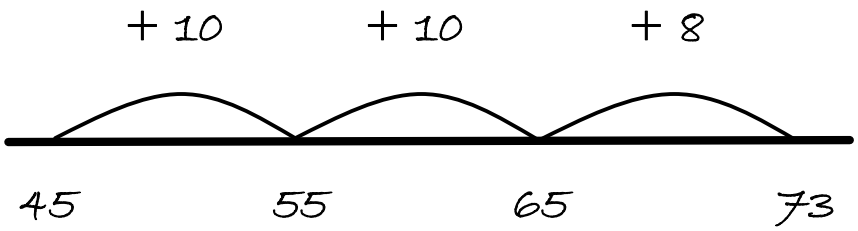
Start with the biggest number. Partition the smaller number into tens and units and add it on:
e.g. 45 + 28



45 + 28 = 73

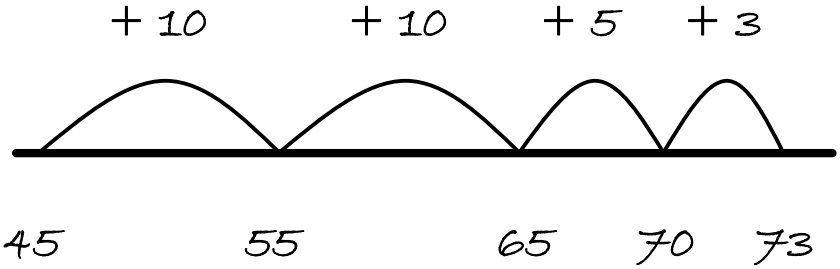
Sometimes, you might partition the tens number into a more manageable number.

e.g. 45 + 28 Partition **28** into **10 + 10 + 8**



Or even partitioning the units to help as well

e.g. 45 + 28 Partition **28** into **10 + 10 + 5 + 3**



45 + 28 = 73

Addition

Stage 5. Partitioning both numbers.

Split both numbers into tens and ones (and hundreds too!)

56 + 38

Partition the numbers **50 + 6** **30 + 8**

Add the tens **50 + 30 = 80**

Add the ones **6 + 8 = 14**

Now add the totals together **80 + 14 = 94**

For a three digit number:

259 + 174

Partition the numbers **200 + 50 + 9** **100 + 70 + 4**

Add the hundreds **200 + 100 = 300**

Add the tens **50 + 70 = 120**

Add the ones **9 + 4 = 13**

Now add the hundreds and tens **300 + 120 = 420**

Now add your answer to the ones **420 + 13 = 433**