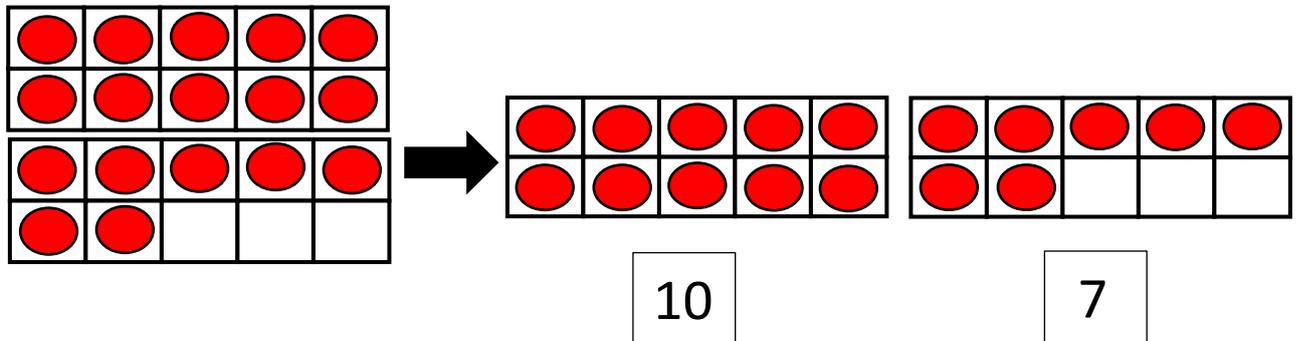


Ten frames

Section 11: Place value

Taking numbers beyond ten, ultimately means introducing the concept of place value.

Horizontal and vertical ten frames may be used, however, the horizontal ten frames must sit side by side rather than one above the other.



Ask the children to work in pairs.

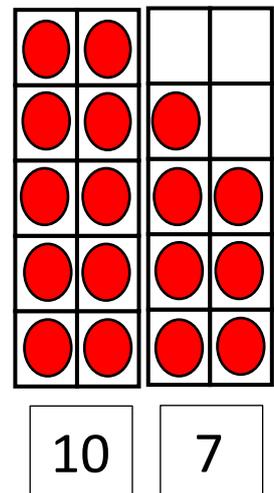
You will need this chart, some ten frames, counters and a 0 – 9 dice.

Fill the first ten frame.

Take turns rolling the dice to generate a number between 0 – 9

Add that number of counters to the second frame and complete the chart.

You may wish to add one further column, where the children write the answer in words, e.g. sixteen.



Counters in the first ten frame	Counters in the second ten frame	Total number of counters	Number sentence
10	6	16	$10 + 6 = 16$
10	5	15	$10 + 5 = 15$
10	7	17	$10 + 7 = 17$

The children need to do activities like this many times, in lots of different ways and with different equipment.

Eventually you will be working towards the notation of $1 \text{ ten} + 7 = 17$

