

## Progressive stages in Addition

### Stage 1

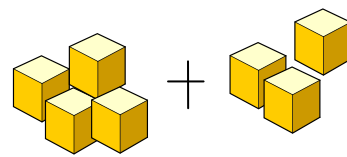
- ✓ Recognise numbers 0 to 20 (value and position)
- ✓ Count objects reliably up to 20 (beginning with 1:1 correspondence)
- ✓ Find one more than a number
- ✓ Count in 1's and 10's

0 1 2 3 4 5 6 7 8 9 10



### Stage 2

- ✓ Begin to relate addition to combining two sets of objects
- ✓ Add two sets of objects together by counting reliably



### Stage 3

- ✓ Begin to use + and = symbols in varying positions
- ✓ Know that addition can be done in any order

$$7 = 3 + 4$$



$$2 + 5 = 7$$

$$5 + 2 = 7$$

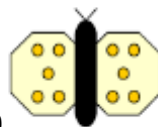
2 count on 5

5 count on 2



### Stage 4

- ✓ Count along a number track or numbered or number line to add numbers together
- ✓ Know doubles of numbers to 10
- ✓ Know by heart all pairs of numbers that total 10

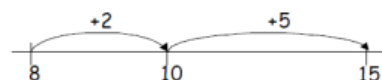


$$10 = 5 + 5$$

$$10 = 1 + 9$$

### Stage 5

- ✓ Add two single digit numbers that bridge 10
- ✓ Begin to partition numbers in order to add
- ✓ Add 10 to any number and know which digits change



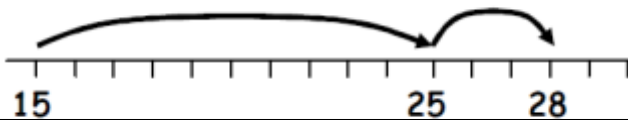
$$15 + 10 = 25$$



## Progressive stages in Addition

### Stage 6

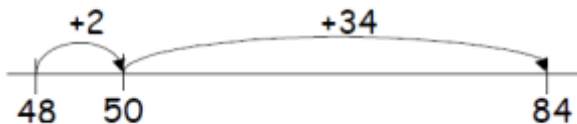
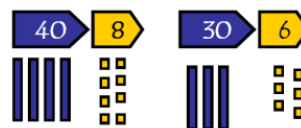
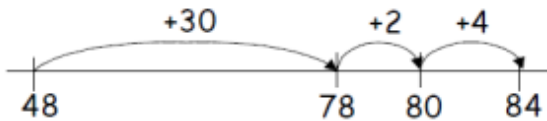
- ✓ Add two two digit numbers by adding 10 and then adding units (without bridging)
- ✓ Add two two digit numbers by partitioning and recombining
- ✓ Know by heart all pairs of numbers that total 20



### Stage 7

- ✓ Add near multiples of 10 to a two digit number
- ✓ Add two two digit numbers by bridging through tens boundary using number line or practical apparatus

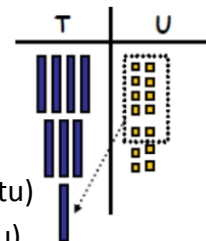
13	14	15	16	17	18
23	24	25	26	27	28
33	34	35	36	37	38
43	44	45	46	47	48
53	54	55	56	57	58



$$\begin{array}{l}
 40 + 30 + 8 + 6 \\
 \hline
 40 + 30 = 70 \\
 8 + 6 = 14 \\
 70 + 14 = 84
 \end{array}$$

### Stage 8

- ✓ Use expanded written method
- ✓ Use standard written method
- ✓ Use mental method for adding larger numbers (e.g HTu and Thtu)
- ✓ Use expanded written method for adding larger numbers (e.g HTu and Thtu)
- ✓ Use standard written method for adding larger numbers (e.g HTu and Thtu)
- ✓ Add numbers up to 2 decimal places



$$\begin{array}{r}
 \text{T} \quad \text{U} \\
 40 + 8 \\
 30 + 6 \\
 80 + 4 \\
 \hline
 10
 \end{array}$$

$$\begin{array}{r}
 48 \\
 + 36 \\
 \hline
 84
 \end{array}$$

$$\begin{array}{r}
 \text{£}4.85 \\
 + \text{£}3.38 \\
 \hline
 \text{£}8.23
 \end{array}$$