

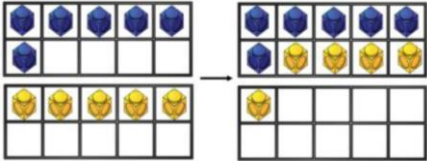
# Addition Routeway

**Key Vocabulary:** sum, total, parts and wholes, plus, add, altogether, more, is equal to, is the same as, more than

## Addition Routeway

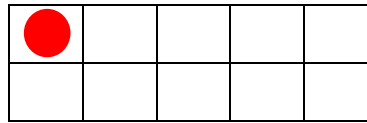
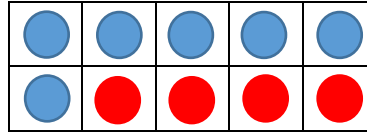
**Regrouping to make 10;** using tens frames and counters/cubes.

$$6 + 5$$



Children to draw the tens frame and counters/cubes.

$$6 + 5$$



Children to develop an understanding of equality e.g.

$$6 + 5 = 10 + 1 = 11$$

**Beadstrings**



$$12 + 3 = 15$$



*7 add 3 makes 10.*

*So, 7 add 5 is 10 and 2 more.*

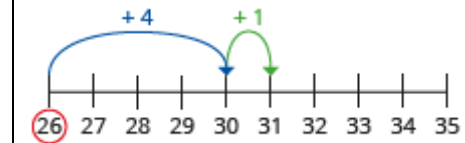
$$7 + 5 = 12$$

Beadstrings can not be used as a pictorial method.

Children to use their knowledge of a beadstring to add mentally.

Drawing blank number lines

$$26 + 5 = 31$$



Jottings

$$45 + 7 = 50 + 2 = 52$$

## Addition Routeway

**TO + TO using base 10.**  
Continue to develop understanding of partitioning and place value.

$41 + 8 =$

T	O

$40 + 9 = 49$

Children to represent the base 10.

T	O
	x
	x x x x
	x
	x x x x

$40 + 9 = 49$

$41 + 8 =$   
 $1 + 8 = 9$   
 $40 + 9 = 49$

*In the early stages children will make mental jottings before using this as a mental method.*

**TO + TO using base 10.**  
Continue to develop understanding of partitioning and place value.

$36 + 25 =$

T	O

$60 + 1 = 61$

Children to represent the base 10.

T	O
	x x x x x
	x
	x x x x
	x

$60 + 1 = 61$

$36 + 25 =$   
 $6 + 5 = 11$   
 $30 + 20 = 50$   
 $50 + 10 + 1 = 61$

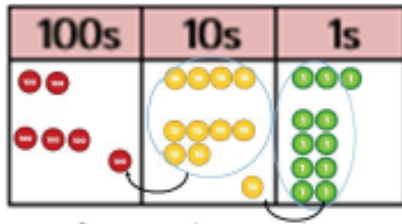
TO
36
<u>+25</u>
61
1

## Addition Routeway

When children are secure with base 10 move to using place value counters. Continue to use base 10 to model for all sizes of numbers.

**Use place value counters to add  
HTO + TO, HTO + HTO etc.**

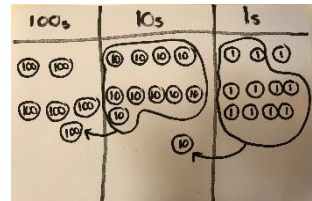
$$243 + 368 =$$



$$600 + 10 + 1$$

Children to represent the counters in a  
place value chart circling when they  
make an exchange.

$$243 + 368 =$$



$$600 + 10 + 1$$

$$\begin{array}{r} \text{H T O} \\ 243 \end{array}$$

$$\begin{array}{r} +368 \\ \hline 611 \\ 1 \quad 1 \end{array}$$