Addition

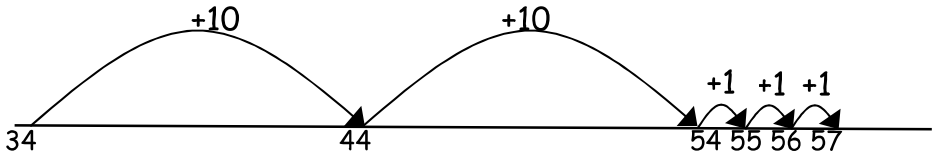
Y2

Add 3 one digit numbers

Children will begin to use 'empty horizontal number lines' themselves **starting with the larger number** and counting on.

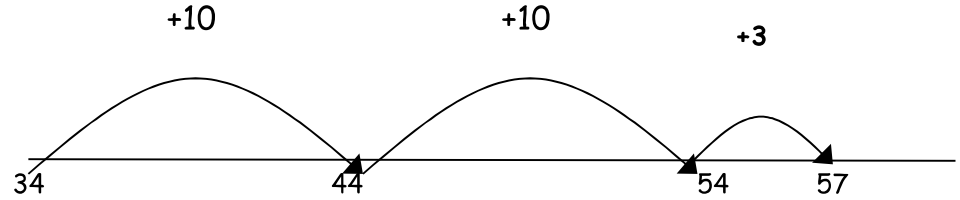
✓ First counting on in tens and ones.

34 + 23 = 57



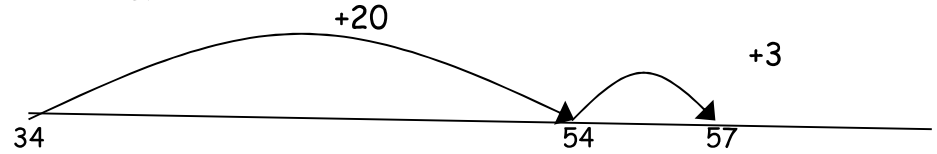
✓ Then helping children to become more efficient by adding the ones in one jump.

34 + 23 = 57



✓ Followed by adding the tens in one jump and the ones in one jump.

34 + 23 = 57

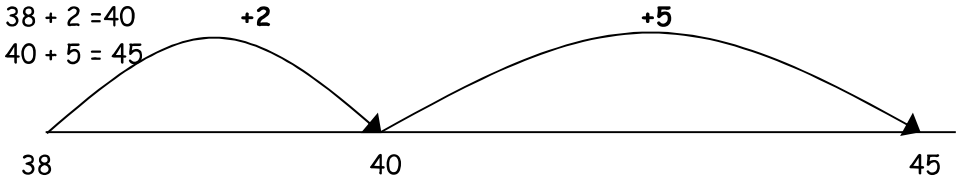


✓ Bridging through ten can help children become more efficient.

38 +7

38 + 2 =40

40 + 5 = 45



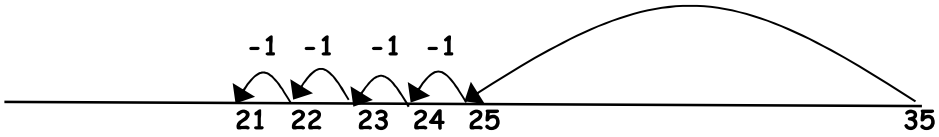
Subtraction

Y2

Children will begin to use 'empty horizontal number lines' themselves, counting back in tens and ones.

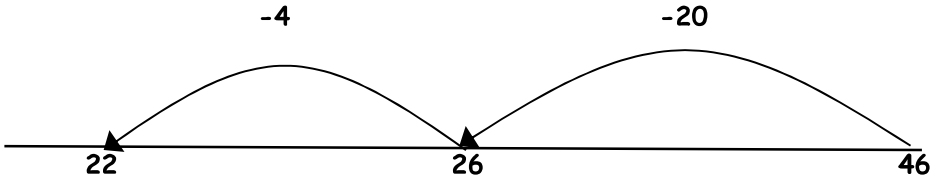
✓ First counting back in tens and ones.

35 – 14 = 21



✓ Then helping children to become more efficient by counting back the ones in a single jump.

46 – 24 = 22

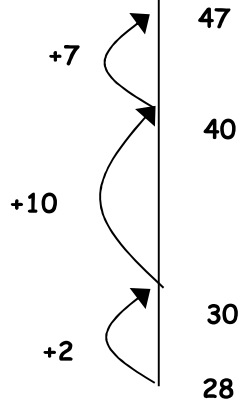


Children will begin to use empty vertical number lines to support calculations.

Counting on (finding the difference)

✓ Counting on in tens and ones from the next multiple of ten.

47 – 28 = 19



Multiplication

Y2

Children will count in 2s, 5s and 10s and begin to count in 3s.

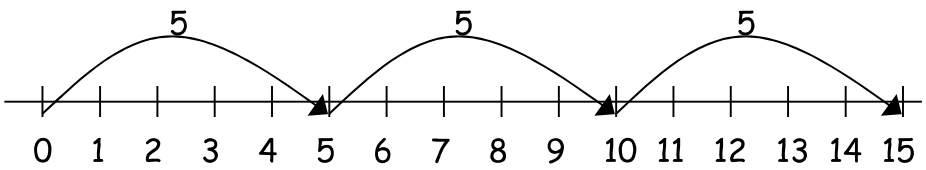
Children will develop their understanding of multiplication and use jottings to support calculation:

✓ **Repeated addition**

3 times 5 is 5 + 5 + 5 = 15 or 3 lots of 5 or 5 x 3

Repeated addition can be shown easily on a number line:

5 x 3 = 5 + 5 + 5

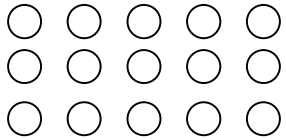


and on a bead bar:

5 x 3 = 5 + 5 + 5

✓ **Arrays**

Children should be able to model a multiplication calculation using an array. This knowledge will support with the development of the grid method.



3 x 5 = 15

5 x 3 = 15

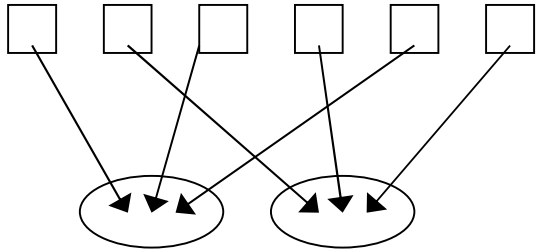
Division

Y2

Children will count in 2s, 5s and 10s and begin to count in 3s.

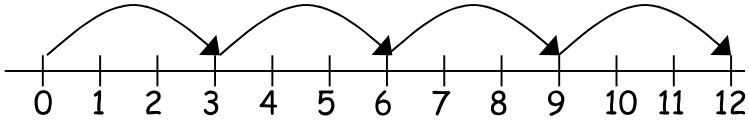
Children will develop their understanding of division and use jottings to support calculation:

6 sweets shared between 2 people, how many do they each get?



✓ **Repeated grouping using a number line**

12 ÷ 3 = 4



1 group 2 groups 3 groups 4 groups