# Comberton Primary School

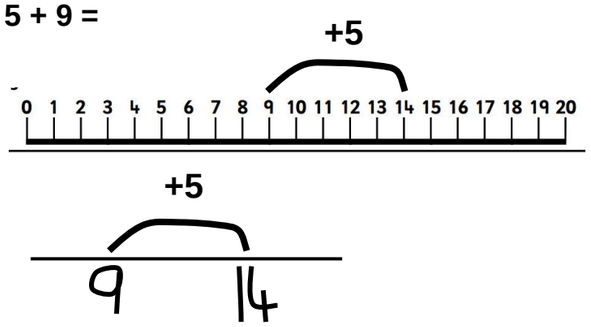
## Progression in calculation: addition

### Number Lines

These can be structured number lines with marked intervals, counting in 1s or any other increment, or children can be extended onto number lines that are blank and create their own steps / jumps.

It is recommended you put the larger number first.

**5 + 9 =**




### Number Lines & Partitioning

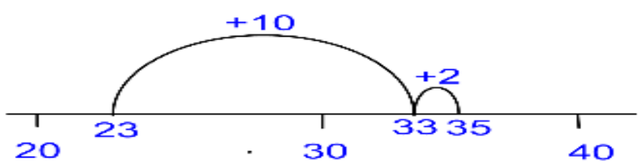
Keep the largest number whole and partition smaller number…

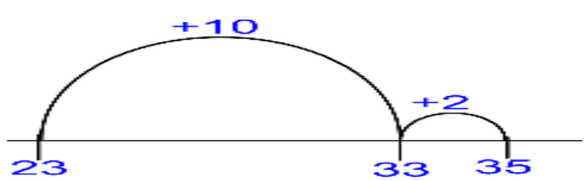
**23 + 12 = 35**

Partitioning one number and explaining thinking…

**23 + 10 + 2 = 33 + 2 = 35**

Using a structured number line…

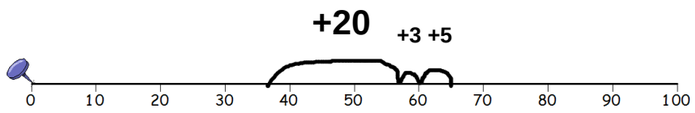



### Number Lines

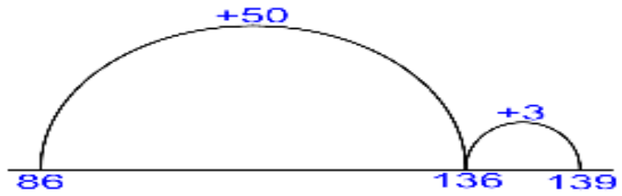
**37 + 28 = 65**

**37 + 20 + 3 + 5 = 65**



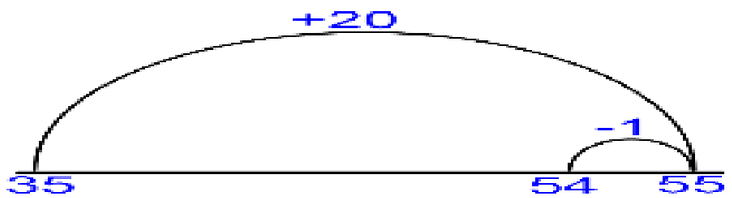

Bridging through 100

**53 + 86 = 139**



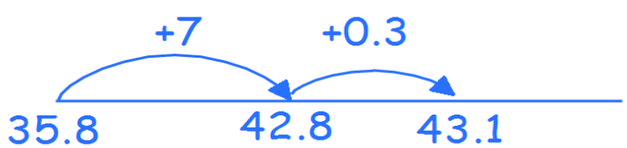

Using known number facts

**35 + 19 = 54**




Adding decimals, keep the largest number whole and partition and add the smaller number

**35.8 + 7.3 = 35.8 + 7 + 0.3**




### Partitioning

**366 + 458**

300 + 60 + 6
400 + 50 + 8
700 + 110 + 14 = 824

### Formal Written Methods

*Pupils must ensure they apply correct place value understanding to align the digits appropriately.*

```
  366
+ 458
-----
   14
  110
  700
-----
  824
```

Addition Sum

Expanded Answers

Final Answer

Compact written method

```
  366
+ 458
  1 1
-----
  824
-----
```

**124.9 + 117.25**

```
  124.9
  117.25
    1 1
-------
  242.15
-------
```