**Partitioning**.

This is based on place value HTU. Separating the numbers like this

56= 50 + 6

85 = 80 + 5

135 = 100 +30+5

This aids mental addition and subtraction

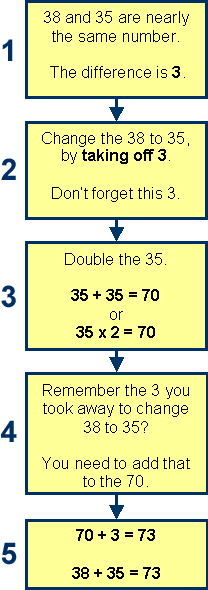
**Addition**   
  
Take a look at this addition sum:  
      **80 + 49**   
  
To make it easier, split the 49 into 40 + 9. This makes the sum:  
      **80 + 40 + 9 = 129**   
  
First, add the first two numbers:  
      **80 + 40 = 120**   
  
Then add the result of that sum to the third number to get the answer:  
      **120 + 9 = 129**

**Subtraction**   
  
Take a look at this subtraction sum:  
      **150 - 34**   
  
To make it easier, split the - 34 into 30 - 4. This makes the sum:  
      **150 - 30 - 4**   
  
First, subtract the 30 from 150:  
      **150 - 30 = 120**   
  
Then, subtract the 4 from the 120 to get the answer:  
      **120 - 4 = 116**

**Near Doubles**

If you are adding together two numbers that are nearly the same, you can **double** one of them and then **adjust the difference**.

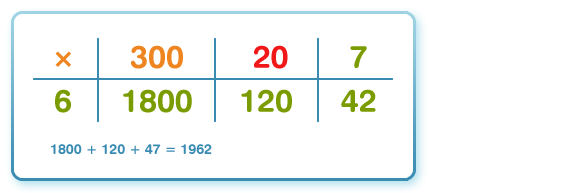
Imagine you are adding together **38 and 35**.



**The grid method**

When you use the grid method, you break up the number into hundreds, tens and units. Multiply each separately and then add the answers together.

For example, 327 x 6



1967

For example, 246 x 3

