**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



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For example, 246 x 3

