INTRODUCTION TO FORMULAE

One of the most important reasons for using a spreadsheet is to use formulae. These are like sums that work out the answer automatically.

We add the numbers together to get the answer.

1 + 2 = 3

Look at this sum:

Now this sum:	3 = 1 + 2	The answer is the same. Why?
It does not matter how 3 when we add 1 and		sum we know that we will always get the answer
The sum equals the ar	nswer and so the	e answer must equal the sum.
Now look at this:	$1 + 2 = \boxed{1 + 2}$	
This sum is correct bu	it it does not he	elp us with the answer to $1 + 2$
the box makes sense.	The $1+2$ in the A computer c	work out the answer to $1 + 2$. Then the answer in ne box is the formula for working out the sum. i.e. an not do sums unless it knows what to do. The
Now try putting the fo	ormula for each	of these sums in the boxes that go with them.

7 + 5 =	
25 + 10 =	
8 - 3 =	
100 - 10 =	
2 x 3 =	
10 x 10 =	

The formulae that you have entered in to the boxes would enable a computer to work out the answer for each of the sums.

In the spreadsheet below the sum 1 + 2 = 3 is shown as it might appear in Starting Grid. You can see that the + and = are missing. The formula has been used to calculate the answer 3 but only the answer is shown.

	A	В	C	D	Е	F
1						
2		1	2	3		
3						

In this spreadsheet the numbers in B2 and C2 are entered and the answer in D2 is calculated using a formula entered. But what if the numbers in B2 or C2 were to change the formula $\boxed{1+2}$ would be wrong. What you need is a formula that will add up the numbers in B2 and C2 regardless of what numbers they are:

If B2 + C2 = D2 then D2 = B2 + C2 With this formula you add together any two numbers automatically.

Now try working out these sums using the formula B2 + C2

- 1 If B2 = 3 and C2 = 4 what does D2 =
- 2 If B2 = 10 and C2 = 5 what does D2 =
- 3 If B2 = 50 and C2 = 100 what does D2 =

In this spreadsheet we need a formula to work out the number of Mars Bars left. Write the formula in this box and then put the answer in D2.

	A	В	C	D	Е	F
1		Bought	Ate	Have Left		
2	Mars Bars	5	2			
3						

Does your formula work regardless of the quantity in B2 and C2?

In this spreadsheet you need to write a formula that will calculate the total number of pencils in the stock cupboard. Write your formula in cell D2.

	A	В	C	D	Е	F
1		Number	Number	Total		
		in Packet	of Packets			
2	Pencils	10	7			
3						

Now that you know what formulae are and how to use them, next time, you can try writing formulae using the Spreadsheet program on the computer.