

Computer Group Notes

Spreadsheet Basics and Beyond

The following is a spreadsheet to calculate the results and efficiency of the bowls team

	A	B	C	D	E	F	G	H	I	J
1										
2	Winter Bowls Two Mat League 2005-2006									
3										
4	Date	Oponent	Play	For	Against	Result	Skip	No 1	No2	Effective
5	10th Oct	Aylesbury	Home	10	6	Win	Botham	Barker	Beckham	63%
6	21st Oct	Thame	Away	9	7	Win	Giggs	Trueman	Mclnroe	56%
7	24th Oct	P'Risborough	Home	7	10	Lost	Giggs	Trueman	Beckham	41%
8	14th Nov	Oxford	Home	19	2	Win	Clarke	Barker	Stewart	90%
9	28th Nov	Wallingford	Home	5	7	Lost	Botham	Barker	Stewart	42%
10	16th Jan	Weatley	Home	9	7	Win	Clarke	Moss	Beckham	56%
11	30th Jan	H Wycombe	Home	7	5	Win	Giggs	Moss	Stewart	58%
12	13th Feb	Watlington	Home	9	6	Win	Clarke	Barker	Beckham	60%
13	20th Mar	Amersham	Home	9	9	Draw	Giggs	Moss	Beckham	50%
14	28th Mar	Beaconsfield	Away	9	5	Win	Botham	Moss	Stewart	64%
15	3rd April	Bourne End	Home	4	10	Lost	Giggs	Barker	Beckham	29%
16	11th April	Marlow	Away	7	9	Lost	Moss	Trueman	Stewart	44%
17										
18		Total		104	83					
19										
20		Success rate				7 Wins		56% Eff		

Notes:

The font colour option is used to change the colour of the text in columns D & E

Select the "format font" icon and choose the colour that you want

D18 & E18 are calculated by using the SUM function to add D5 to D16 and E5 to E16

SUM(D5:D16)

F5 to F16 are calculated as Win, Lost or Draw depending on our team scores by using the IF statement

IF(D5>E5,"Win",IF(D5<E5,"Lost",IF(AND(D5<>0,E5<>0),"Draw","")))

Inserting text depending on a condition

Use the IF statement to evaluate the contents of cells and then put the answer in this cell

The format is IF(condition,true,false)

You can have nested IF statements so if the condition is not true you can ask another question

IF (condition,true,if(condition,true,false),false))

You can have up to 64 nested IF statements but you will then have a formula that is so complex that it will be almost impossible to understand.

In this example the AND statement is used so that the word "Draw" is only inserted if the scores are equal and greater than zero. (The symbols <> mean "Not equal to")

The effective rate is our team score as a percentage of the total score

IF(OR(D5>0,E5>0),D5/(D5+E5),"")

The calculation is only performed if either D5 or E5 is greater than zero

The number of wins for our team is calculated from the results column using the COUNTIF statement

IF(AND(D18=0,E18=0),"",IF(COUNTIF(F5:F16,"Win")=1,COUNTIF(F5:F16,"Win")&" Win",COUNTIF(F5:F16,"Win")&" Wins"))

The efficiency is calculated as the total home match score as a percentage of the total match score

The same technique is used in cell H20 to add the characters "% Eff" after the calculated figure

IF(AND(D18=0,E18=0),"",ROUND((D18/(D18+E18)*100),0)&"% Eff")

The colours of the results are calculated by using CONDITIONAL FORMATTING

Similarly the colour of the cell for the success rate is calculated by looking to see if there is information in cell H20

Calculating the future value of investments

	A	B	C	D	E	F
1	Interest Rates					
2						
3	This option will show you how much return you can get on an investment					
4						
5	It uses the function FV(interest rate,number of payment periods,amount of payment each period, lumpsum payment,payment due)					
6						
7	Tax Rate	20.00%				
8						
9	Sum to invest	£700.00				
10	Number of years	3				
11	Interest Rate	3.50%				
12						
13		Lump sum		Equal amount per year		Lump sum and then equal amounts each year
14	Gross Interest rate	3.50%		3.50%		3.50%
15	Number of payments	3		3		3
16	Amount of payment each period *	0		-£233.33		-£166.67
17	Lumpsum payment *	-£700.00		£0.00		-£200.00
18	Payment due indicator	1		1		1
19						
20	Final value of investment	£776.10		£750.15		£757.57
21						
22	Gross Interest	£76.10		£50.15		£57.57
23						
24	Tax	£15.22		£10.03		£11.51
25						
26	Final value of investment after tax	£760.88		£740.12		£746.05

* Values that come out of your bank account are entered as negatives and those that go in as positives

Formula for cell B20 - FV(B14,B15,B16,B17,B18)

Formula for cell B22 - B20+(B16*B15)+B17

Formula for cell B24 - (B22*\$B\$7)

Formula for cell B26 - B20-B24