

Disco Costs

You are organising a disco/party at school to raise money for charity. It costs £50 to hire a DJ and disco. Refreshments will be provided at an average cost of 70p per person. The cost of the tickets will be £1.50 each.

Create a spreadsheet to show the takings, costs and profits for a number of possible ticket sales

	A	B	C	D	E	F
1	Disco Costs					
2						
3	Tickets sold	Takings	Disco hire	Food cost	Total cost	Profit
4						
5	0					
6	10					
7	20					
8	30					
9	40					
	50					
	and so on					
	to 160					

- You must enter a formula for columns B, D, E and F.
- Column B = Number of tickets sold x £1.50. (Hint: $B5 = A5 * 1.5$). Then replicate the formula down the column.
- Column C is £50 copied all the way down.
- Column D = Number of tickets sold * 0.7 (Hint: $D5 = A5 * 0.7$).
- Column E = Column C + Column D.
- Column F = Column B – Column E.
- Enter all these formulae and check they have been copied correctly.
- Format all columns, apart from column A, to two decimal places.

Questions

- How many tickets must you sell to make £30 profit?
- How many tickets must you sell to make £70 profit?
- Alter the number of tickets sold (column A) on your spreadsheet from 0 – 160 to 60, 61, 62, 63, 64,.....70
- How many tickets must you sell *to break even*? (This means you make no profit)
- What if prices go up? See what happens if the disco hire increase to £55 and the cost of refreshments changes to 85p
- What is the *break even* point now?
- Save your work as **disco costs**
- Preview your work to make sure it fits on one page and then print it.