Name: Tutor Group:

# Disco Model Questions

**Use the finished version of the Disco Model** to answer the following questions. Put your answers into the grid below.

CHANGE VARIABLES BACK TO THEIR ORIGINAL VALUES AFTER EACH QUESTION.

|  |  |  |
| --- | --- | --- |
| **Questions** | **Hint** | **Answers** |
| **EASY** |  |  |
| How much profit would be made if 500 tickets are sold? | Change the value of B17 |  |
| How much profit would be made if only 200 tickets are sold? | Change the value of B17 |  |
| How much profit would be made if 250 tickets are sold and teachers are paid £15? | Change the value of B17 & B10 |  |
| What is the formula in cell B24? | Double click on it |  |
| Name 2 things that could be done to decrease the costs. | e.g. find a cheaper DJ |  |
| Describe how total income is calculated | Double click on B19, say what the formula is doing |  |
| **MEDIUM** |  |  |
| Name two cells that contain ***values*** (or ***variables***) | Find two cells that contain numbers but not formulae |  |
| What formatting has been used on cell B28? |  |  |
| Name 2 things that could be done to increase the income. |  |  |
| If 400 tickets are sold and the DJ’s cost came down to £50, what would the profit be? |  |  |
| How much profit would be made if 250 tickets are sold and drink cost reduced to 15p? |  |  |
| What is the formula in cell B25? |  |  |
| Which two cells have formulae that use functions? |  |  |
| Describe how profit is calculated |  |  |
| **DIFFICULT** |  |  |
| How many tickets need to be sold to “break even” (profit is zero)? |  |  |
| What factors affect the number of posters needed? |  |  |
| Explain in words what the formula in cell B9 is doing. |  |  |
|  |  |  |