Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lecture Time \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# CSE1111 – Homework #3 (15 points)– Reference Functions

You own a small computer retailing company that sells basic computers to home users. You offer a small number of systems and the option of an extended warranty. You have organized your pricing data on two spreadsheets and your customer purchases on a third spreadsheet. All three spreadsheets (see below) are in a single workbook.

* The worksheet **Prod!** lists the cost for each model number.
* The worksheet **Info**! is a table of extended warranty costs, average handling, and average shipping times. All of these are based on the price of the computer system.
* The worksheet **Order**! is a list of customer orders and whether or not they purchased an extended warranty. Warranty costs are found on the Info! worksheet and vary based on total computer system costs.

***Use cell references whenever possible.***



Orders!



Info!



Prod!

***Please note when writing formulas, to receive full credit you must use correct Excel syntax (ie:use \* for multiplication, / for division, etc.). Do not use unnecessary $ or functions. Also note, when writing your formulas, use cell references whenever possible.***

1. (2 points) Write a formula in cell Orders!D3 to calculate the cost of this system. Write the formula so that it can be copied down the column.
2. (1 points) You are planning to sell a new model ***5111***. Where (i.e. which line) on the Prod! worksheet do you have to add the information about this new model so that the formula in question 1 still works properly? Explain your answer.
3. (3 points) Write a formula in cell Orders!E3 to calculate the warranty cost for this purchase. Write the formula so that it can be copied down the column. Hint: You will need to use an If function to determine if a warranty is purchased, and within the IF function determine the warranty costs.
4. (1 point) Write an Excel formula in cell Order!F3 which can be copied down the column to calculate the total cost for this order.
5. (3 points) Write another Excel formula in cell Orders!G3 which can be copied down the column to determine the total shipping and processing time (ship time + processing time) for this order. Use reference functions.
6. (2 points) Any order with total cost of $3000 or above needs extra care. Write a formula in cell Orders!H3 which can be copied down the column to determine if the order needs extra care. If yes, display “*EXTRA CARE*”. Otherwise, display “*NO NEED*”.
7. (3 points) Write a formula in cell Order!G13 to determine the ***total computer cost*** (column D of Orders!) of all orders which purchased the ***extended warranty*** (column C of Orders!).