

Decision Making with IF Statement

A powerful part of the spreadsheet is the ability to make a decision based on previous computations. To do this, we use an IF statement.

= IF (condition, true value, false value)
 ↑ ↑ ↑ ↑
 function testing value if true value if false
 condition

Conditions are based on comparisons. The comparison operators are:

= equal to
 > greater than
 > = greater than or equal to
 < less than
 < = less than or equal to
 < > not equal to

Example IF (A1 >= 0, 10, B6)

Compound conditionals may be created by using logical operators.

AND () OR () NOT ()

Ex. IF (AND (A3 > 0, A4 < 0, 3, 5) **(EXPLAIN)**

IF functions may also be nested inside one another (up to 7 levels)

IF (A > 10, IF (C < 2, 1, 0), 20)

----(DO exercises from book)

Worksheet Protection

- To prevent others or inadvertently you from changing a sheets contents, you can protect the entire worksheet or specified parts of it.
- When you protect a worksheet, all the cells are locked and cannot be changed.
- You can leave some unlocked to enter data while protecting others.

In order to protect cells, we must first lock the entire worksheet.

Changes all to read only – demonstrate

FORMAT

CELL – notice lock is on, click to disengage

Do after cell { TOOLS

Protection { PROTECTION

{ PROTECT SHEET

(password optional)

Now all the sheet is protected except those areas you have specifically unlocked.

Hiding of Rows and Columns

There may be data that is sensitive and should not be seen or data that represents intermediate steps of a calculation that is not necessary to be seen.

To prevent seeing this data, we can hide it

FORMAT

(Row/Column)

HIDE - **UNHIDE** to reverse effect

Notice the results, the row or column actually disappears and is replaced by a thick line to indicate it's position.

Homework 5: Exercise 1(chapter5)- (what-if analysis game) (50 points)

Change the value in C2 to play the game. What percentage of widgets would pass if the acceptable value of P was raised to 1.5 or lowered to 0.25. Do the problem in Excel. You should develop three sets of scenarios (control, P= 1.5 and P= 0.25) As before please type your name, date and time in the header statement.

Due date: March 15, 2001 (late penalty 5 points /day after the due date)