Coordinates: Absolute: $A$4.

Relative B4C4 =B4+C4

Formula:

- When pasting formulas, cell references are relative

="Comp"&"Sci" CompSci

= 5 <> 3 not equal => TRUE.

RANDBETWEEN(10,20) => Random Number between 10 and 20

COUNT(n1, n2.... ) => Count the number of numbers only.

Range: B4:B6 B4 B5 B6

=AND / OR / NOT (Para A, Para B)

= IF (condition, return if true, return if false).
1 0

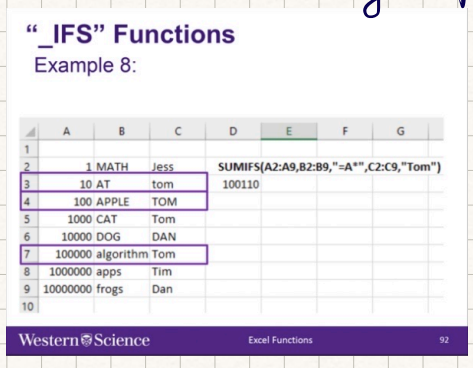
=COUNTIF(range, criteria)

=COUNTIF(A2:A5, ">"B7)

Similarily, we have SUMIF, AVERAGEIF.

SUMIFS (Sum-range, criteria-range1, criteria1, range2, criteria2)

return sum in range if all criterias are satisfied.



## Search Functions

### MATCH Function

- The MATCH function looks for a value and returns it's index (it's number in the row or column)

=MATCH(value_to_find, range, how_to_match)

- range is the range of cells that will be searched.
- how_to_match is the search mode:

| | |
|---|---|
| 0 | Find first value equal to value_to_find |
| 1 | Find the largest value <= to value_to_find |
| -1 | Find the smallest value >= to value_to_find |



## Search Functions

### INDEX Function

- MATCH is not very useful on it's own.
- More powerful when used with INDEX function.
- INDEX returns the value of a cell at a given index in a range.

=INDEX(range, index, [column_number])

- range is the range of cells that will be searched.
- index is the cell number in the range for which the value will be returned.
- column_number is the column of the range to be searched if the range spans multiple columns (is 2D).