

# Microsoft Office Excel 2007

## Additional Functions

# More functions

- Three additional functions within Excel combine conditional checking with statistical and arithmetic operations.
- **COUNTIF** -> counts the number of cells within a range that meet a given criteria.
- **SUMIF** -> adds the cells specified by a given criteria.
- **AVERAGEIF** -> returns the average of all the cells in a range that meet a given criteria.

# COUNTIF

- **Syntax: COUNTIF (range, criteria)**
- **Range** is the range of cells from which you want to count cells
- **Criteria** is the criteria in the form of a number, expression, cell reference, or text that defines which cells will be counted. For example, criteria can be expressed as 32, "32", ">32", "apples", or B4.

# COUNTIF (cont)

**Function Arguments** ? X

COUNTIF

**Range**  = reference

**Criteria**  = any

=

Counts the number of cells within a range that meet the given condition.

**Range** is the range of cells from which you want to count nonblank cells.

---

Formula result =

[Help on this function](#)




# SUMIF

- **Syntax:** SUMIF(range, criteria, sum\_range)
- **Range** is the range of cells that you want evaluated by criteria.
- **Criteria** is the criteria in the form of a number, expression, or text that defines which cells will be added. For example, criteria can be expressed as 32, "32", ">32", or "apples".

# SUMIF (cont)

**Function Arguments**

SUMIF

<b>Range</b>	<input type="text"/>		= reference
<b>Criteria</b>	<input type="text"/>		= any
Sum_range	<input type="text"/>		= reference

=

Adds the cells specified by a given condition or criteria.

**Range** is the range of cells you want evaluated.

---

Formula result =

[Help on this function](#)

OK Cancel




# AVERAGEIF

- **Syntax:** **AVERAGEIF(range, criteria, average\_range)**
- **Range** is the range of cells that you want evaluated by criteria.
- **Criteria** is the criteria in the form of a number, expression, or text that defines which cells will be added. For example, criteria can be expressed as 32, "32", ">32", or "apples".

# AVERAGEIF (cont)

**Function Arguments** ? X

AVERAGEIF

<b>Range</b>	<input type="text"/>		= reference
<b>Criteria</b>	<input type="text"/>		= any
<b>Average_range</b>	<input type="text"/>		= reference

=

Finds average(arithmetic mean) for the cells specified by a given condition or criteria.

**Range** is the range of cells you want evaluated.

---

Formula result =

[Help on this function](#)

# EXAMPLE

Example of COUNTIF, SUMIF, and AVERAGEIF.

(stock\_ifs.xlsx)

(you will find this file on my lecture notes page)

# Questions? Better know your Functions!

