

STUDY GUIDE

CONDITIONAL VARIANT FORMULAS

Key Terms

Aggregate Functions: A series of formulas that allow you to summarize information.

Formula Cheat Sheet

The examples in the formulas below refer to this table:

	A	B	C	D	E
1	id	name	color	size	deliveries
2	1	widget68	blue		4
3	2	widget66	red	3.59	Not-Delivered
4	3	widget68	green	1.71	5
5	4	widget59	white	8.15	Order Processing
6	5	widget60	white	8.15	Order Processing
7	6	widget61	black	3.59	Not-Delivered
8	7	widget87	pink		1
9	8	widget57	pink	7.83	3
10	9	widget56	blue	7.86	2
11	10	widget81	red	5.70	4
12	11	widget55	green	3.59	Order Processing
13	12	widget91	green		3
14	13	widget81	green	3.31	3
15	14	widget65	red	3.59	3
16	15	widget81	orange	7.83	Not-Delivered
17	16	widget90	blue	7.83	Not-Delivered
18	17	widget81	red	7.83	4
19	18	widget72	green	6.77	4
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1. COUNT

- » =COUNT(value1, [value2], ...)
- » Counts the number of numeric values in a range.
- » **Example:** =COUNT(E2:E19) would produce 11 because there are 11 numeric values in that range.

2. COUNTIF

- » =COUNTIF(range, criteria)
- » Counts the number of values in the range that meet the given criteria.
- » **Example:** =COUNTIF(C2:C19,"green") would produce 5 because "green" appears five times in that range.

3. COUNTA

- » =COUNTA(value1, [value2], ...)
- » Counts the number of non-blank cells, not just the number of numeric cells.

- » **Example:** =COUNTA(D2:D19) would produce 15 because there are 15 non-blank cells in that range.

4. COUNTIFS

- » =COUNTIFS(criteria_range1, criteria1, [criteria_range2, criteria2]...)
- » Similar to COUNTIF, except it can take many ranges with many criteria.
- » **Example:** =COUNTIFS(C2:C19,"white",E2:E19,"Order Processing") would produce 2 because there are two rows that have "white" in Column C AND "Order Processing" in Column E.

5. COUNTBLANK

- » =COUNTBLANK(range)
- » Counts the number of blank cells in the range. This is the complement to COUNTA above.
- » **Example:** =COUNTBLANK(D2:D19) would produce 3 because there are three blank cells in the range D2:D19.

6. SUMIF

- » =SUMIF(range, criteria, sum_range)
- » Sums the values in a range that meet criteria you specify.
- » **Example:** =SUMIF(B2:B19,"widget81",D2:D19) would produce 24.68. The first argument tells the function where to look for the item, and the second argument indicates what to look for (in this case, widget81). The third argument tells the function in which range of cells to sum values for rows that have "widget81" (in this case, D2:D19).