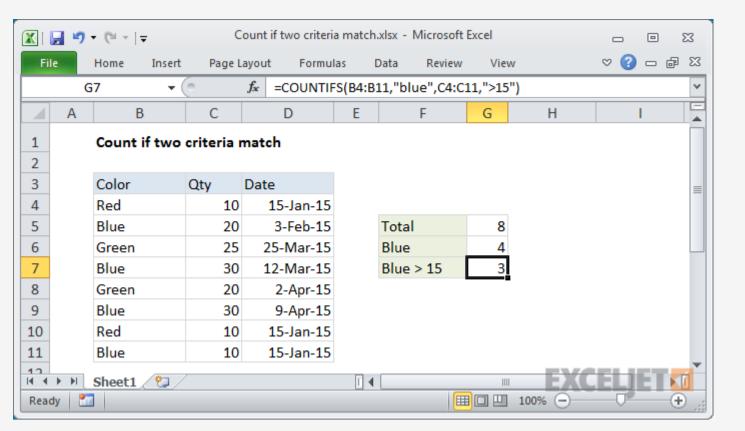
## Count if two criteria match



# Generic formula

= COUNTIFS(range1, critera1, range2, critera2)

# Summary

If you want to count rows where two (or more) criteria match, you can use a formula based on the COUNTIFS function.

In the example shown, we want to count the number of orders with a color of "blue" and a quantity > 15. The formula we have in cell G7 is:

= COUNTIFS(B4:B11, "blue", C4:C11, ">15")

## Explanation

The COUNTIFS function takes multiple criteria in pairs — each pair contains one range and the associated criteria for that range. To generate a count, all conditions must match. To add more conditions, just add another range / criteria pair.

#### **SUMPRODUCT** alternative

You can also use the SUMPRODUCT function to count rows that match multiple conditions. the equivalent formula is:

```
= SUMPRODUCT((B4:B11 = "Blue") * (C4:C11 > 15))
```

SUMPRODUCT is more powerful and flexible than COUNTIFS, and it works with all Excel versions, but it is not as fast with larger sets of data.

### Pivot table alternative

If you need to summarize number of criteria combinations in a larger data set, you should consider pivot tables. Pivot tables are a fast and flexible reporting tool that can summarize data in many different ways. For a direct comparison of SUMIF and Pivot tables, see <a href="this video">this video</a>.