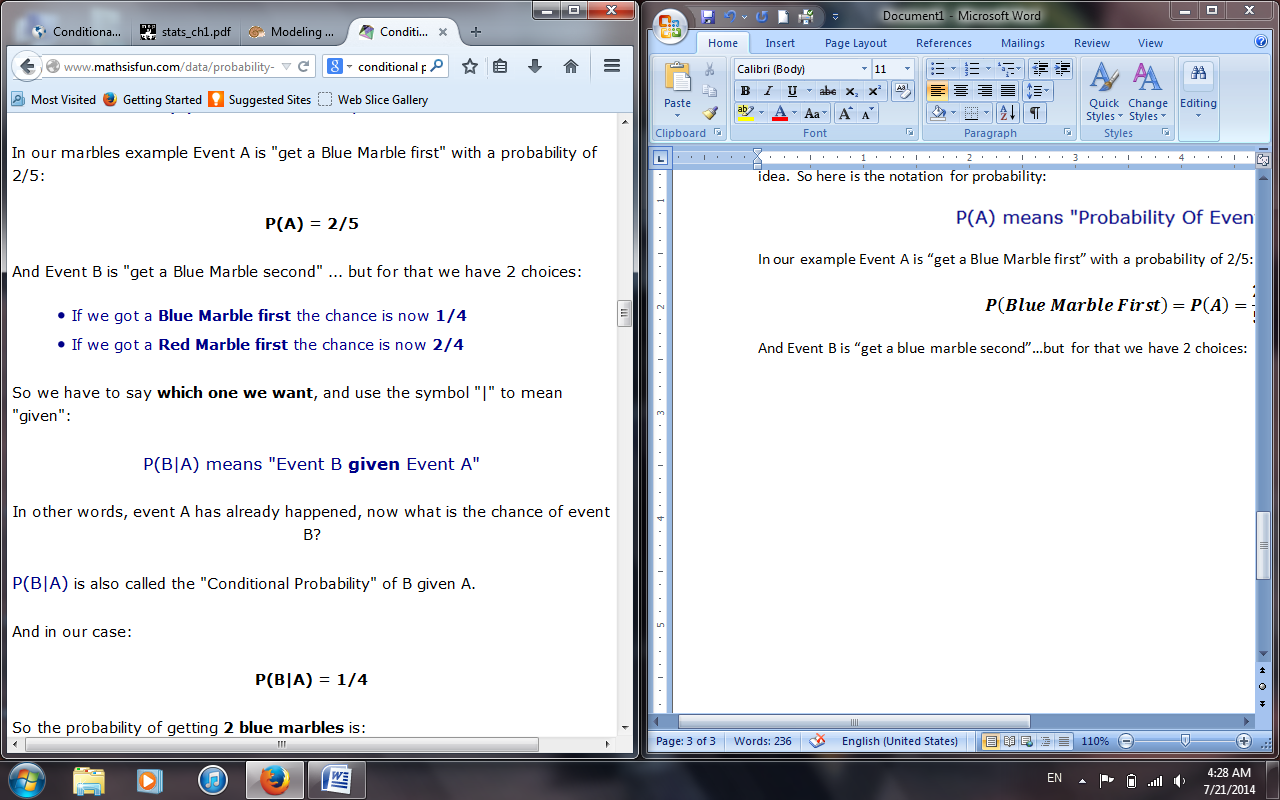
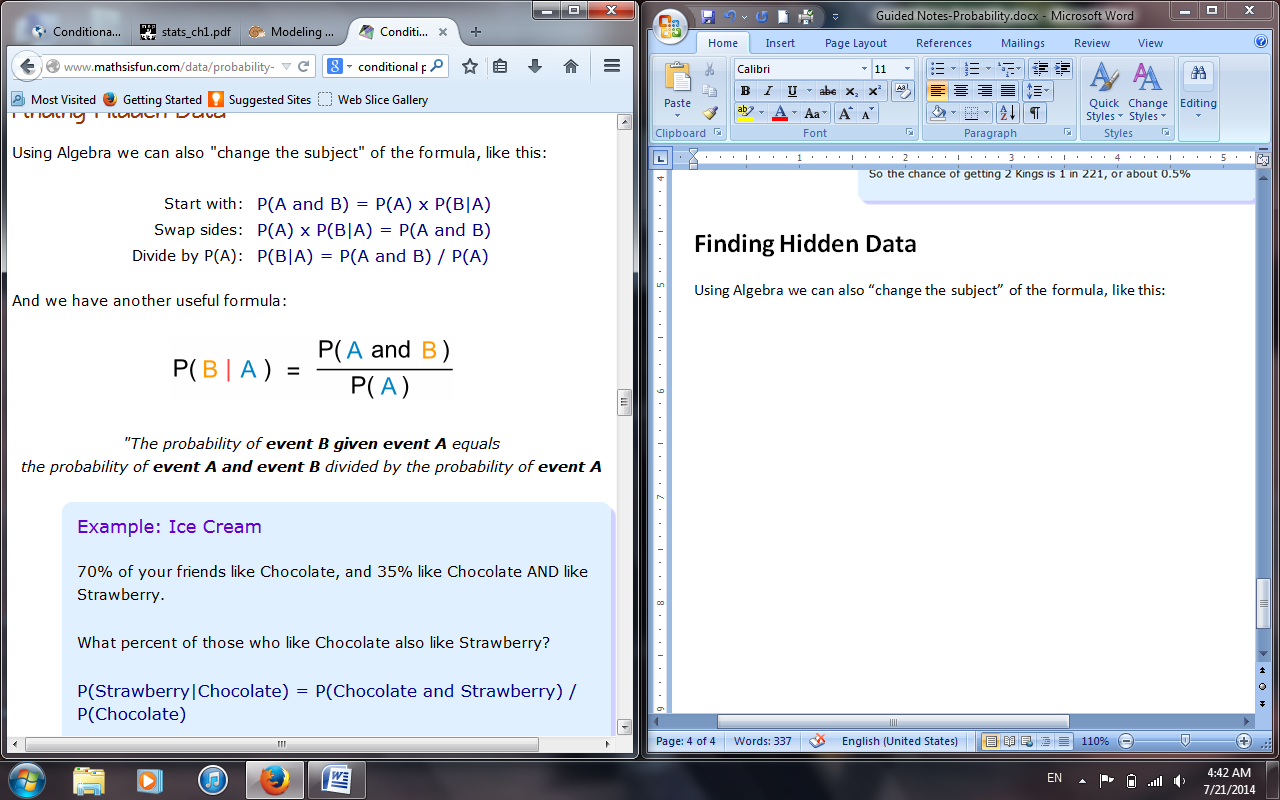
**Notation**

**We love notation in mathematics!** It means we can then use the power of algebra to play around with the idea. So here is the notation for probability:

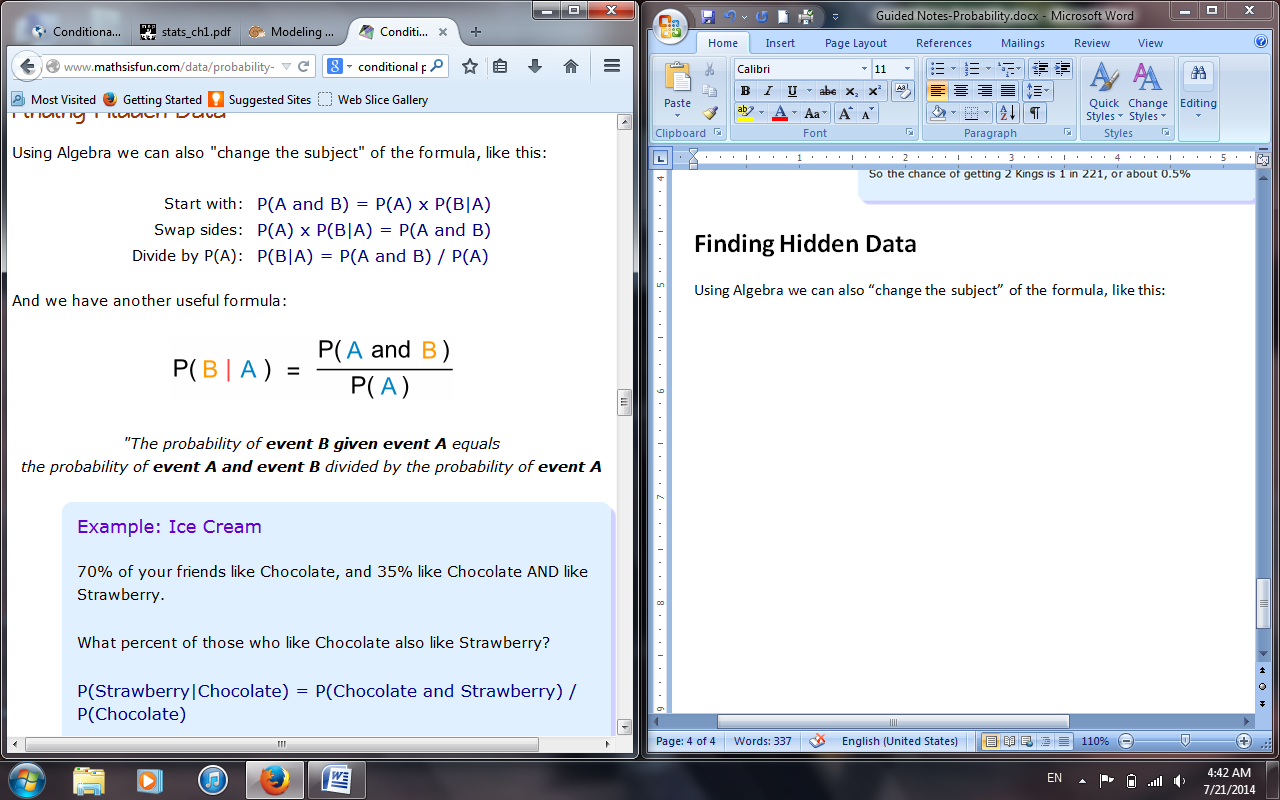
So we have to say **which one we want**, and use the symbol **“|”** to mean “given”:



In other words, event A has already happened, now what is the chance of event B?

**Hidden Data**

Using Algebra we can also “change the subject” of the formula, like this:

And we have another useful formula:

***“****Probability of* ***event B and event A*** *equals*

*the probability of* ***event A and event B*** *divided by the probability of* ***event A.”***

