Fundamental Counting Principle

Finding the Sample Space

If we looked at the numbers for each of the outcomes in the tree diagrams, a pattern kind of jumps out at us. The product of those numbers is the total number of outcomes.

Fundamental Counting Principle – if an event M can happen in *m* ways, and after that occurs another event N can happen in *n* ways, then event M followed by event N can happen in *mxn* ways.