

22.1: Example- Candy Colors

Let's say that I have purchased a bag of 100 candies, which are labeled as having $\frac{1}{3}$ chocolates, $\frac{1}{3}$ licorices, and $\frac{1}{3}$ gumballs. When I count the candies in the bag, we get the following numbers: 30 chccolates, 33 licorices, and 37 gumballs. Because I like chocolate much more than licorice or gumballs, I feel slightly ripped off and I'd like to know if this was just a random accident. To answer than question, I need to know: What is the likelihood that the count would come out this way if the true probability of each candy type is the averaged proportion of $\frac{1}{3}$ each?

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