

Lab 04

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3. What happens to the proportion of tails as the number of tosses is increased? And explain why this happens?
- As the number of tosses increases, the actual proportion of tails gets closer to the theoretical proportion, 0.5.
 - The larger our sample size (number of tosses), the smaller the variability of our statistic, the sample proportion.

6. How is the average total (the red line) changing as you continue to toss three dice?
- As the number of tosses increases, the average total gets closer to the theoretical total, 10.5.
 - The larger our sample size (number of tosses of three dice), the smaller the variability of our statistic, the sample mean.

7. What is the Law of Large Numbers?

The Law of Large Numbers says that the average of the values of the X observed in many trials must approach μ , the true mean. In terms of tossing three dice, the average of the total of the three dice, the red line in the graph, gets closer and closer to the true average, 10.5.