

Application exercise: 5.2

Chi-square tests, Pt. 1

Pick a number, any number...

Pick a number between 0 and 9, and submit using your clicker. We will use these data to evaluate whether each number is equally likely to be chosen.

1. What type of test is most appropriate? Explain your reasoning.
2. What are the hypotheses?
3. Calculate the expected counts.
4. Check if the conditions for inference are met.
5. Calculate the test statistic.
6. Calculate the p-value.
7. What is the conclusion of the hypothesis test?