**Introduction:**

In this engaging activity, we delve into the exciting world of NCAA Division I Lacrosse faceoff percentages. Our primary goal is to compare a specific team's performance with overall league statistics for the 2022-2023 season. Throughout this exploration, we will focus on the concept of one sample proportion hypothesis testing, a powerful statistical tool commonly used in sports analytics. By the end of this exercise, you will gain a fundamental understanding of hypothesis testing and its practical applications in evaluating team performance.

**Learning Objectives:**

1. Comprehend the concept of one sample proportion hypothesis testing and its relevance in sports statistics.

2. Analyze and interpret dataset variables related to faceoff percentages in NCAA Division I Lacrosse.

3. Evaluate a specific team's faceoff performance by comparing it with league-wide statistics using hypothesis testing.

**Methods (Statistical Concepts Students Need to Know):**

1. Basic probability and percentages.

2. Null and alternative hypotheses.

3. Sample size and sample proportion calculations.

4. Success-failure condition for hypothesis testing.

5. Calculation of test statistics (Z-score).

6. Understanding significance levels (⍺) and p-values.

7. Drawing conclusions and implications from hypothesis test results.