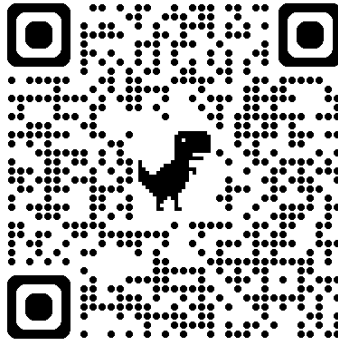# A STATISTICIAN'S FIRST DAY

Today is your first day as an official statistician for an NBA team. Your job is to collect your team's data and provide mathematically backed training recommendations. Identify the team that you are working for and record the team's name in the space below. Fill in the information below using the statistics of your team's last four games found at this link:

https://www.basketball-reference.com/boxscores/

Your Team: _____

Game 1 (G1):

Game 2 (G2):

Game 3 (G3):

Game 4 (G4):

Fill in the following chart with the **number of *total* shots attempted** and **number of shots successfully *made*** for each of the four games (G1, G2, etc.).

	G1 Total	G1 Made	G2 Total	G2 Made	G3 Total	G3 Made	G4 Total	G4 Made
2-Point Shots								
3-Point Shots								

Calculate the statistical probability of 2-point shots and 3-point shots being successful for each game. Use simplified fractions and percentages. (Structure your fractions like this: $\frac{made}{total}$.)

	G1	G2	G3	G4	Average Probability
2-Point Shots					
3-Point Shots					

Your team's coach has asked you to determine whether the team should practice 2-point shots or 3-point shots. Based on your data, which would you recommend? Write a letter to the coach using at least **five complete sentences** to explain which specific shots the team should practice.