A Statistician’s First Day

Today is your first day as an official statistician for your NBA team. Your job is to collect your team’s data and provide mathematically backed training recommendations. Find your team’s stats for the last four games here: <https://www.basketball-reference.com/boxscores/>

Your Team: ­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Game 1 (G1):

## Game 2 (G2):

## Game 3 (G3):

## Game 4 (G4):

Fill out the following chart with the **number of *total* shots attempted** and **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 each type of shot being successful for each game. Use simplified fractions and percentages. (Structure your fractions like this: .)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | G1 | G2 | G3 | G4 | Total Probability |
| 2-Point Shots |  |  |  |  |  |
| 3-Point Shots |  |  |  |  |  |

Your team’s coach has asked you to find out whether the team should practice 2-point shots or 3-point shots. Based on your data, what would you recommend? Write a letter of **five complete sentences** to the coach to explain what the team should practice.