Chpater 5 Moodle Questions

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PART 1

# GC Baseball Sampling Methods Matching

You want to do a survey of members of the baseball team at Georgetown College to see how they feel about academic life at GC. You want to ensure that you take a *simple random sample*. There are several sampling strategies that you have in mind. Which one of the following strategies is a simple random sample?

You obtain a list of all GC baseball players and pick the first 12 names on the list.

You obtain a list of all GC baseball players and you select one of the first 5 names at random. Then, you select every fifth name on the list after that until you have 12 people selected.

You find out that there are 6 baseball players enrolled in each of the four sections of MAT 111. You write the sections on slips of paper - A, B, C, D - and place the slips of paper in a hat. You shuffle the papers and then select 2 slips of paper from the hat without replacement. The students in the two chosen sections make up your sample.

You find out that there are 20 JV players and 40 Varsity players on the baseball team at GC. To make your sample representative of this distribution, you randomly select 4 players from the JV team and 8 players from the Varsity team to be in your sample.

You obtain a list of all GC baseball players. You then write the name of each player on a slip of paper and put the papers in a hat. You thoroughly shuffle the names and then select 12 slips of paper from the hat without replacement.