**Group:** Batot

**In-Class Probability 1**

**Q1 (1 pt.):** **Who are the members of your group?**

Elizabeth Clark, Lina Clifford, Jessica Martinez, Laura Haynes, Olivia Dinkelacker, Nikki Yunes Perez

**Q2 (1 pt.):** **How many red acorns are in your bag?**

5 acorns: 3 red, 2 blank

**Q3 (2 pts.): What is the probability that you reach into the bag, randomly select an acorn, and it is red? You don’t need to give an exact number, but be sure to explain your reasoning.**

3/5 because there are five acorns in total and three of them are red. There are 5 possible outcomes, and three wanted outcomes.

**Q4 (2 pts.):** **What is the probability that you reach into the bag, randomly grab two acorns, and they are both red? Don’t try to give an exact number, but rather explain why this might be higher or lower than your answer to the previous question**.

The probability of grabbing two red acorns would be 3/5 \* 3/5. It would be lower because you have to account for both acorns being red instead of just one.

**Q5 (2 pts.):** **Keeping in mind your answer to 2, what is the probability that you grab all 5 acorns at once and find two red acorns? Explain your reasoning.**

100%, because 3 out of the 5 acorns are red, grabbing all five at once will have the presence of all 3 red acorns, making the probability of finding 2 red 100%.

**Q6 (2 pts.):** **Keeping in mind your answer to 2, what is the probability that you grab all 5 acorns at once and find three red acorns? Explain your reasoning.**

There is a 100% probability that there are three red acorns when you grab all five acorns at once because of the five acorns, three of them are red. So, in grabbing all five acorns you would always get three red acorns.