Application exercise FR.1:
Frequentist inference review

Submit your responses on Sakai, under the appropriate assignment. Only one submission per team is required. One team will be randomly selected and their responses will be discussed.

Earlier you decided how many M&Ms to buy, accordingly your sample is one of the following:

- $n = 5 \rightarrow$ RGYBO

- $n = 10 \rightarrow$ RGYBO   BBGOY

- $n = 15 \rightarrow$ RGYBO   BBGOY   YRBRR

- $n = 20 \rightarrow$ RGYBO   BBGOY   YRBRR   GORBY

Answer the following questions using your sample only.

1. What is your sample size? This is your n.

2. How many yellows are in your sample? This is your k.

3. Calculate the p-value using the Binomial distribution:

   p-value = P(k or more yellows | n, %yellow is 10%)

4. Do you reject the null hypothesis based on the α you chose earlier?

5. What is the conclusion of your hypothesis test, i.e. what do you report to your boss?