

Names: _____

Activity #7: Sampling Distributions

Statistics

1. Plain M&M candies have a mean mass of 0.8565 g with standard deviation 0.0518 g. A selected bag of M&Ms was found to contain 465 candies and have a claimed mass of 396.9 g. We may assume that the masses of M&Ms are normally distributed.
 - (a) If one M&M is selected, find the probability that its mass is greater than 0.8535 g.
 - (b) If 465 M&Ms are selected, find the probability that their mean weight is greater than 0.8535 g. (Hint: Use a sampling distribution.)

- 2