

Content Standards:

-To explore when the use of the normal distribution is an appropriate model for the binomial distribution and apply it to calculate probabilities for larger sample sizes.

Process Standards:

- Students will determine what information is relevant for a given situation.
- Students will make informed decisions based on the information they are provided with.
- Students will demonstrate effective communication skills when presenting information in written form.

Task:

In Chapter 3, you have learned about the Binomial Distribution and the Normal Approximation. Depending on the circumstance, one is more useful than the other. As you answer the following question, talk about the differences between the Binomial Distribution and the Normal Approximation and key things that you look for when deciding which one to use.

When is it appropriate to use a Binomial Distribution versus a Normal Approximation? Describe characteristics of the Binomial Distribution and the Normal Approximation in your answer. Also, describe how the information you are provided with helps you know what approach to use.