



## **Solutions**

**Algebra II Journal Module 4:**

**Inferences**

**The Importance of Being Random**

**This journal belongs to:**

Module 4: Inferences

**Algebra II Journal: Reflection 1**

Respond to the following reflection questions and submit to your teacher.

**Create a question that you would like to research. (For example, two questions that were researched in this lesson were “Does the average teenager prefer to eat healthy snacks or unhealthy snacks?” and “Does the weather affect a person’s mood and behavior?”)**

- **Develop an observational study that would offer statistically supportive data to provide an answer to your question.**
- **Develop an experimental study that would offer statistically supportive data to provide an answer to your question.**
- **Develop a survey that would offer statistically supportive data to provide an answer to your question.**
- **Analyze the three types of statistical studies you develop. Identify the strengths and weaknesses of each. Be sure to discuss the randomization used in selecting the subjects in the studies and the potential for bias.**

**Answer:**

*Answers will vary.*