# Guided Workshop 2: Creating a Histogram in Excel

***Instructions:*** Download the file “Guided Workshop 2 – STARTER.xlsx”. I would recommend setting aside about an hour for this activity. When you are ready to start the workshop, open and begin the video “Guided Workshop 2: Creating a Histogram in Excel”.

The video will have optional in-video questions to help teach you and guide you along. You won’t submit this document, but it will be a good template/guide for the activity.

At the end, after you have completed the Excel file above, you will open the “Guided Workshop 2 Submission” quiz, where you will submit the answers to the questions at the end of this document.

***Background/Instructions*** (this is also explained in the “Guided Workshop 2: Creating a Histogram in Excel” video)

In this workshop, you will clean up the data in the raw data file, screen for outliers in the data, then you’ll put together a proper histogram of the data in Excel. The data available in the “Guided Workshop 2 – STARTER.xlsx” file represent a large number of measurements of the weight of Kool-Aid packets. There are a few invalid data points (represented by 9999) and cells that first need to be removed (I’ll step you through this process).

Once the data has been cleaned up, you will calculate the first and third quartiles, the interquartile range (IQR), and the upper and lower fences (f3 and f1, respectively). Next, we will re-measure those outliers to see if any of them need to be eliminated permanently. Finally, you will determine bin width and create the bin boundaries, which you will use to create the final histogram.

Follow along with the “Guided Workshop 2: Creating a Histogram in Excel” video. When you are done putting together your Excel file, answer the following questions in the “Guided Workshop 2 Submission Quiz” on Coursera (the text fields below are only for your benefit – you won’t be submitting this document).

1. How many cleaned data points are there remaining after the 9999’s and blanks have been removed? Click here to enter text.
2. What is the interquartile range (IQR) of the data, before making any changes to the outliers? Click here to enter text.
3. What is the lower number of bins to use and what is the upper number of bins to use for a histogram in this case? Click here to enter text.
4. How many total bins will you actually use for this histogram? Click here to enter text.
5. How many observations are in your second bin? Click here to enter text.

**That’s all! 😊**