Name:

Project 1: Visualizing Frequencies

Please use the following to answer the questions for Project 1. Make sure to answer the question in complete sentences with proper grammar and spelling. This document is **5 pages** long to allow space for your answers - be sure to complete all parts! When you are done, ***save this file as a PDF*** and ***submit it via Gradescope***.

Questions for Task 1:

Double click where it says "Name:" at the top of this document and type your name.

A) Is this categorical or numerical data?

B) Copy and Paste your ***frequency*** table from Excel here. (Drag to select cells A1 through B11, do "Edit > Copy" in Excel, then click just below this text and do "Edit > Paste" in Word).

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C) Copy and Paste your ***relative frequency*** table from Excel here. (An easy way to do this is to paste in cells A1 through C11, then use options in Word to remove the Frequency column) .

D) What formula did you use in cell **C6** in the Frequency Table for Oscar sheet?

E) Copy and Paste your frequency bar graph for the movie preferences of the class from Excel here.

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F) Copy and Paste your pie chart of the favorite movie preference from Excel here.

G) Compare the frequency table and the pie charts. Which do you think better displays the data? Why?

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Questions for Task 2:

A) Is this categorical or numerical data?

B) Copy and Paste the two-way table you created in Excel here.

C) Copy and Paste the multi-bar graph that you created in Excel here.

D) How many students are male AND chose $21,000 First Class as their favorite YouTube video?

E) What proportion of students are female OR chose Nike Football as their favorite YouTube video?

F) Does the two-way table give us more information than a frequency table about the Water Bottle video? If it does, what information does it give us?

G) Look at all the columns in the two-way table. For this data is it beneficial to have a two-way table or would we be able to obtain the same information from a frequency table? Why?