

Regression line and correlation Project

Please form a group of at least 2 students and at most 3 students from your class.

Report back the names of the group by Monday September 18th, 2017. (One member of the groups needs to email me with the names of all the group members)

Each member of the group needs to submit his/her project separately by emailing it to me by the end of the day on **Due Date the 27th of September 2017.**

After setting up your group. Please work all together to properly address the following problem.

The Project:

Objective: Studying the correlation between the MPG (mileage per gallon) and an appropriate variable from the given data set.

To do list:

- 1) Choose an appropriate variable to study the correlation with the MPG.
- 2) Justify your reasoning behind choosing this variable.
- 3) Draw a scatter Plot of for the corresponding variable in study.
- 4) Draw a regression line for your scatter plot.
- 5) Calculate the correlation.
- 6) Draw a conclusion.

Your final paper will be an Excel sheet containing all your work. (If you prefer to write the reasonings and the results on a separate document that is also fine.)

Note: You are not allowed to get help from the Math center for this Project. For question please contact me ether by email or by coming to office hours.