Make	Model	Style	Cost	City MPG	HWY MPG	Drivetrain	Num Cylinders	Horsepower

- Classification factors
- Nominal data
- Ordinal data
- Dichotomous data
- Continuous data

Transmission type	Safety Rating	Trim Level	Color	Interior Finish	Wheelbase	Vehicle Width	Vehicle Weight

0-60mpg time	Total Units sold

Factor	Datatype	Analysis	Null Hypothesis	Why
Cost	Continuous	One-sample t-Test	The cost of MechaCar is same than the mean of the competition price	Will evaluate if the cost of the MechaCar is competative against other vehicles within each category
Performance	Continuous	One-sample t-Test	The 0-60 time of the MechaCar is the same than the mean of the competition	Will evaluate if the performance of the MechaCar is competative against other vehicles within each category
Fuel Economy	Continuous	One-sample t-Test	Is the fuel economy of the MechaCar the same than the mean of the competition	Will evaluate if the fuel economy of the MechaCar is competative against other vehicles within each category
Maintainance	Continuous	One-sample t-Test	Is the maintainance costs of the MechaCar the same that the mean of the competition	Will evaluate if the maintainance cost of the MechaCar is competative against other vehicles within each category
Engine size	Categorical	Simple linear equation	There is no relationship between the engine size and the performance of vehicles in similar categories	Try to perdict the appropriate engine size to be competitive in the performance
Transmission type	Categorical	ANOVA	Transmission type has no effect on the mean of the fuel economy	Try to determine if there is a difference in the mean of MPG based on the transmission type
Drive train	Categorical	ANOVA	Drivetrain has no effect on the mean maintainance costs for vehicles	Try to determine if there is a difference in the mean of Maintainance cost based on the type of drivetrain a vehicle has