"Invent a Car" Project

Your task in this project is to invent a car and make some mathematical calculations related to it. You and your partner will create a PowerPoint presentation to present to the class.

<u>Your presentation should have the following slides:</u>

- ➢ Slide #1 – Title Page   2 Points
  - o Name of the car & picture
  - o Name of the inventors of the car
- ➢ Slide #2 – Cost of the car (Between $1,000 and $100,000)   3 Points
  - o Cost of the Car (Needs to be a decimal number)
  - o Cost of the car with 7% sales tax
- ➢ Slide #3 – Cost of Insurance (Between $500 and $5,000 for Annual)   4 Points
  - o Annual cost of insurance
  - o Semi-annual cost
  - o Quarterly cost
  - o Monthly cost
- ➢ Slide #4 – Fuel   5 Points
  - o How many miles per gallon does your car get?
    - ▪ Example: 20.8 miles per gallon
    - ▪ Pick a decimal number (tenths) between 10.0 and 100.0
  - o How many gallons of gasoline does the tank of your car hold?
    - ▪ Pick a whole number between 10 and 100 gallons
  - o What is the cost for a gallon of gasoline?
    - ▪ Pick between $2.00/gallon and $5.00/gallon
  - o How much does it cost to fill the tank?
  - o How far can your car go on a full tank of gasoline?
- ➢ Slide #5 – Frequency Table, Line Graph, Bar Graph, or Line Plot   5 Points
  - o Create a frequency table, line graph, bar graph, or line plot
- ➢ Slide #6 – Monthly Payments   6 Points
  - o Use the simple interest formula ($I = PRT$)
    - ▪ P = Principal (cost of the car)
    - ▪ R = Rate (use 6%)
    - ▪ T = Time in Years (use 5 years)
  - o How much interest will be paid?
  - o How much total money will be paid (Principal + Interest)?
  - o What are the monthly payments?
    - ▪ Sum of Principal and Interest divided by 60 months
- ➢ Slide #7 – Conclusion   2 Points

TOTAL   **27 Points**