Multiple Choice Questions:

MPG is miles per gallon

1. This is a list of all 1200 car models in the US in 2017. This would be known as the
   a. Sample
   b. Survey
   c. Population
   d. Experiment

2. The second quartile is the same as the:
   a. mean
   b. median
   c. IQR
   d. Q4

3. In the dataset online, what type of variable is "car manufacturer "
   a. Comparative
   b. Quantitative
   c. Inferential
   d. Descriptive

4. "Miles per gallon" is what type of variable?
   a. Discrete Comparative
   b. Continuous -Quantitative
   c. Discrete Quantitative
   d. Continuous Comparative

5. The statement: The average of all cars is 23.5mpg. This is:
   a. Comparative
   b. Quantitative
   c. Inferential
   d. Descriptive

6. To find the average gas mileage we would say
   a. =average(a:a)
   b. =average(c:c)
   c. =sum(c:c)
   d. =stdev(a:a)

7. If we wanted to find the average of only Toyota cars, we would:
   a. =average(a:a)
   b. =average(c:c)
   c. sort only column a, then find the average of all of c
   d. Sort all data by column a, then find average of those values in c that have Toyota in a

8. Toyota Camry claims they are 90th percentile for MPG. This means:
   a. They get 90% of the highest car's mpg
   b. They do better than 90% of all cars for mpg
   c. They are the 90th best car for mpg
   d. They get 90 mpg

9. The standard deviation of mpg is 6. This means:
   a. On average cars get 6 mpg.
   b. On average cars differ by about 6 mpg from the average car.
   c. Cars always are about 6 mpg different from the average car.
   d. Cars will never get more than 6 mpg different from the average car.

10. The middle 50% of cars have a difference of 8 mpg. This is also known as the:
    a. median
    b. standard deviation
    c. range
    d. IQR