Case Study Questions

1. In the US in 1990, there were 2.1 million deaths from all causes, compared to the 1.7 million in 1960; nearly a 25% increase. True or False: the data show that the public’s health got worse over a period of time? Explain.

2. The National Highway and Traffic Safety Administration analyzed thefts of new cars in 1992, compared to production figures for that year.
   a. In the Chevrolet line: 134 Corvettes were stolen out of the 18,938 produced; 300 Berettas were stolen out of the 45,598 produced. True or False: since 300 is bigger than 134, the data show that thieves prefer Berettas.
   b. Nissan produced 1,000 Z-cars and 133,000 Sentras, The theft rate for Z-cars was 9 per 1000 while the theft rate for the Sentras was 7 per 1000. True or False: the theft rate for Sentras was lower than the rate for Z-cars because so many more Sentras were produced.

3. Ads for ADT Security System claims “When you go on vacation, burglars go to work...According to FBI statistics, over 25% of home burglaries occur between Memorial Day and Labor Day.” Do the statistics prove ADT’s claim? Explain.

4. Read Case 11: Original Source 11. Title: “Diving impairment due to sleepiness is exacerbated by low alcohol intake” JA Horne, LA Reyner, PR Barrett. Write a report that discusses each of the Seven Critical Components for this study. Argue for or against the believability of the results on the basis of your discussion.