16) Below is some salary statistics

a) What percentage is the salary of a high school graduate with no college compared to a person with a bachelor’s degree.

17) Consumer Price Index The table below cites the recent Consumer Price Index values.

**Year Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec**

* a)  What is the Consumer Price Index?
* b)  What was the percentage increase of the CPI from Jan 2000 to Jan 2010?

c) Follow the CPI, if we paid $12,000 for a car in 2005, then how much should we anticipate paying for a car in 2015?

18) The graph below shows a scatterplot of income per year versus number of years of education after high school along with a line that does a fairly good job of running through the middle of the data.

* a)  Estimate the slope of the line.
* b)  Interpret the slope as a rate with units.
* c)  Explain what information this rate is giving us.

19) In 2003, there were 75 turtles living in a nearby wetland. That year, the population began growing by 9 turtles a year. Create a formula for 𝑃, the number of turtles, in terms of 𝑡, the number of years since 2003. Use your formula to predict the turtle population in 2019.

20) In 2003, there were 75 turtles living in a nearby wetland. That year, the population began growing by 9% a year. Create a formula for 𝑃, the number of turtles, in terms of 𝑡, the number of years since 2003. Use your formula to predict the turtle population in 2019.

21) A reservoir creates electricity by flowing down a pipe, turning a turbine, which turns a generator, which produces electricity. Suppose the generator produces 3.6 × 109 𝐽 of energy. Suppose the generator is 95% efficient and the turbine is 86% efficient. Then how much energy does the water supply at the beginning of the process?