

Statistics Final Assignment: Excel Used

1. Lower Limit: 115.983, Upper Limit: 126.217

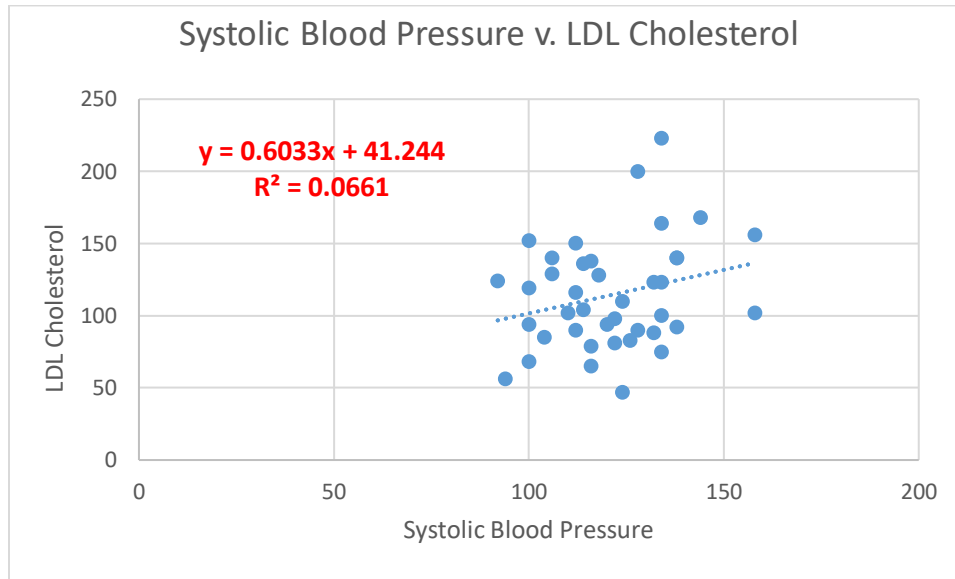
2. Null: mean = 100, mean > 100

p-value: 0.0001

Because the p-value of 0.0001 is lower than our significance level of 0.05, we reject the null hypothesis.

We have sufficient evidence to conclude that the true population mean of systolic blood pressure is greater than 100 mm Hg.

3.



4. $R = 0.257$

5. P-value: 0.1093

Because the p-value is higher than the significance level of 0.05, we fail to reject the null hypothesis.

There is insufficient evidence that systolic blood pressure is correlated with LDL cholesterol.

6. Since the correlation is not significant, we should not predict any values from the regression equation.

However, from our equation, we predict the LDL cholesterol of a person with a systolic blood pressure of 100 mm Hg as $y = 0.6033(100) + 41.244 = 101.574$