Required Information for Final Lab

Demographic Summary

1) Pie Chart of Gender
2) Bar Chart of Age
3) Bar Chart of Education Level
4) Pie Chart of Political Affiliation
5) Pie Chart of Concern with Economy
6) Side by side Bar Chart for 1^{st}, 2^{nd}, 3^{rd} choices to fix economy

Statistical Summary

1) Sample proportion of males (specify x & n)
2) Sample proportion of democrats & republicans (specify x & n)
3) Sample proportion of those concerned with economy (specify x & n)
4) Sample proportions of age classifications (each individually; specify x & n)
5) Sample proportions of education levels (each individually; specify x & n)
6) 5 # summary plus mean and standard deviation and n of believed debt
7) 5 # summary plus mean and standard deviation and n of acceptable debt

Confidence Intervals

1) For average debt using sample data. Use confidence level of 80%.

and

Any 2 of the following with a confidence level of 90%

2) Proportion of males

or

3) Proportion of democrats **or** republicans (not both)

or

4) Proportion of those concerned with economy

or

5) Proportion of those in ANY one of the age classifications (not two to complete this portion)

Hypothesis Tests

Tests of Means (Choose 1)

1) The assumed debt is less than $\$16.7 \times 10^{12}$. Use a 10% significance level. Use the confidence interval to test this hypothesis.
2) The average acceptable debt is less than average assumed debt. Use a 10% significance level
3) The difference between the average citizen's assumed debt is higher than acceptable debt. Use a 10% significance level.

Tests of Proportions (Choose 1)

1) The proportion of Democrats is over 50%. Use a 5% significance level.
2) The proportion of Republicans is under 42%. Use a 5% significance level.
3) The proportion of males is different than 50%. Use a 10% significance level.
4) The proportion under 20 years old is higher than 7.2%. Use a 5% significance level.
5) The proportion over 50 is lower than 21%. Use a 5% significance level.
6) The proportion of people with BA/BS/Above BA/BS is different than 39.5%. Use a 10% significance level.

Tests of 2 Proportions (Choose 1)

1) Republican/Democratic Party is affiliation is different for in people in their 40's & 50's than in 30's/20's/Below. Use an 80% confidence level.
2) Proportion of democrats who want taxes raised is lower than the proportion of republicans that want taxes raised. Use an 90% confidence level.
3) Proportion of males and females with degree attainment of BA/BS or Above is different. Use an 80% confidence level.

Chi-Squared Tests (Choose 1)

1) The proportions of citizens who want to effect the economy with lowering taxes, raising taxes, cutting war spending/foreign spending differs by political affiliation (I suggest just using democrat & republican or putting the other 2 together). Use a 95% confidence level.
2) The proportions of citizens who want to effect the economy with lowering taxes, raising taxes, cutting war spending/foreign spending differs by education level (I suggest just using AS/lower & BS/higher). Use a 95% confidence level.
3) The proportions of citizens who want to effect the economy with lowering taxes, raising taxes, cutting war spending/foreign spending differs by age classification (I suggest 20s/Below, 30s/40s and 50s&Up instead of all classifications). Use a 95% confidence level.
4) Political affiliation differs due to educational attainment. Use a 95% confidence level.
5) Political affiliation differs due to age classification. Use a 95% confidence level.
6) Political affiliation differs due to gender. Use a 95% confidence level.
7) Concern/No Concern (leave out No Opinion) differs due to age classification. Use a 95% confidence level.

ANOVA (Extra Credit when accompanied by another Chi-Square)

There is at least one difference in the average assumed debt based upon age classification. Use a 90% confidence level.