Math 189/289C Homework 1 (Main Document)

Yuqi Wang, Ning Xu, Chenyue Fang, Chengyu Chen, Daniel Hahnkyul Lee, Xinran Wang

TOTAL POINTS

75 / 80

QUESTION 1

1 problem 1 10 / 10

- √ 0 pts Correct
 - 3 pts does not mention min/max/portion
- 7 pts does not mention min/max//portion/1st quartile/3rd quartile

QUESTION 2

2 problem 2 10 / 10

- √ 0 pts Correct
- **3 pts** draw two histograms but did not combine two graphs together
 - 7 pts do not have histograms and boxplots

QUESTION 3

3 problem3 10 / 10

- √ 0 pts Correct
- 3 pts changed the threshold of "low weight definition" but did not mention both cases of increasing and decreasing/ or did not graphically summarize your data/or did not get the conclusion for "how reliable of your estimates"
- **7 pts** did not change the threshold for underweight babies

QUESTION 4

4 problem4 9 / 10

- 0 pts Correct
- √ 1 pts relate more contents of "other studies"

QUESTION 5

5 language 10 / 10

√ - 0 pts Correct

QUESTION 6

6 additional hypothesis 6 / 10

- 0 pts Correct
- 1 pts almost correct
- √ 4 pts be more specific

QUESTION 7

7 method []histogram/qq-plot/skewness&kurtosis[] 10 / 10

- √ 0 pts Correct
 - 3 pts need one more method
 - 7 pts need two more methods
- 3 pts mentioned skewness but did not explain the outcome you get
- **7 pts** did not explain the outcomes you get for more than one item

QUESTION 8

8 theory 10 / 10

√ - 0 pts Correct

- 2 pts theory part should be separated from your analysis (put theory part in the end)
- 10 pts there should be a "theory part"
- **5 pts** need to mention more concepts that you have used in your report
- 3 pts please take a look at the theory part of professor's lecture. Yours format should follow that.
- 1 pts please take a look at the theory part of professor's lecture. Yours format should follow that.
- O pts correct, but please take a look at the theory part of professor's lecture. Yours format should follow that.
- **2 pts** need to mention more concepts that you have used in your report
- **1 pts** need to mention more concepts that you have used in your report

Math 189/289C Homework 2 (Main Document)

Yuqi Wang, Xinran Wang, Ning Xu, Chenyue Fang, Chengyu Chen, Daniel Hahnkyul Lee

TOTAL POINTS

92 / 100

QUESTION 1

1 Scenario 1 10 / 10

√ - 0 pts Correct

- **3 pts** CI/CI with finite correction/bootstrap (does not have one of these three)
- 6 pts CI/CI with finite correction/bootstrap (does not have two of these three)
- 9 pts CI/CI with finite correction/bootstrap (does not have all of these three)
 - 1 pts does not have a point estimate

QUESTION 2

2 Scenario 2 10 / 10

√ - 0 pts Correct

- **3 pts** did not compare if there was an exam in the week prior with the regular estimate comparison
- **7 pts** did not graphically compare time with frequency

QUESTION 3

3 Scenario 3 10 / 10

√ - 0 pts Correct

- 3 pts did not get the lower and upper bound for CLT/CI with finite correction/bootstrap(either one of these three)
- **6 pts** did not get the lower and upper bound for CLT/CI with finite correction/bootstrap(two of these three)
- 9 pts did not get the lower and upper bound for CLT/Cl with finite correction/bootstrap(all of these three)
 - 10 pts did not investigate Scenario 3

QUESTION 4

4 Extra Credit 2 / 10

- 0 pts Correct
- **5 pts** for Scenario 4(decision tree), TA's code cannot be just copied into the final result in this case
- 5 pts did not investigate Scenario 4
- 5 pts did not investigate Scenario 6
- √ 5 pts Scenario 4 needs to include a decision tree
- √ 3 pts for Scenario 6, only have the distribution is not enough, a test should be used

QUESTION 5

5 Introduction 10 / 10

- √ 0 pts Correct
 - 10 pts does not have an introduction part
- **5 pts** introduction part should introduce what you have done in your whole report

QUESTION 6

6 Data description 10 / 10

- √ 0 pts Correct
- **3 pts** does not explain how these survey answers are numerically coded
- 7 pts does not have a data description part

QUESTION 7

7 Background 10 / 10

- √ 0 pts Correct
 - 7 pts does not have a background part
- **5 pts** have a background part but did not introduce the survey methodology

QUESTION 8

8 Theory 10 / 10

- √ 0 pts Correct
- **3 pts** theory part does not explain bootstrap or confidence interval
 - 7 pts theory part does not explain bootstrap and

confidence interval

- 10 pts does not have a theory part

QUESTION 9

9 Discussion 10 / 10

√ - 0 pts Correct

- **5 pts** conclusion/discussion part does not include suggestions to the designers of the new computer lab
 - 10 pts does not have a conclusion/discussion part

QUESTION 10

10 Scenario 5 10 / 10

√ - 0 pts Correct

- **3 pts** did not graphically(histogram/ box-plot/...) investigate

- 4 pts did not use cross-tabulations