

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 problem2 **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.
- **0 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/CI 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

Math 189/289C Homework 3 (Main Document)

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

TOTAL POINTS

115 / 115

QUESTION 1

1 Q1: Random scatter 10 / 10

✓ - 0 pts Correct

- 5 pts did not answer the question
- 5 pts check with your graphs again, they did not show correctly in your report

QUESTION 2

2 Q2: Locations and spacings 10 / 10

✓ - 0 pts Correct

- 5 pts did not do Q2

QUESTION 3

3 Q3: Counts 10 / 10

✓ - 0 pts Correct

- 5 pts did not do Q3

QUESTION 4

4 Q4: The biggest cluster 10 / 10

✓ - 0 pts Correct

- 5 pts did not do Q4

QUESTION 5

5 Methods 40 / 40

- 10 pts Missing Chi-squared/K-S test on exponential distribution
- 10 pts Missing Chi-squared/K-S test on uniform distribution
- 10 pts Missing Chi-squared test/K-S test on poisson distribution
- 10 pts Missing maximum hit method
- ✓ - 0 pts correct

QUESTION 6

6 Introduction/ Background/Data description 15 / 15

✓ - 0 pts Correct

- 5 pts does not have introduction/background/data description(one of three)
- 10 pts does not have introduction/background/data description(two of three)
- 15 pts does not have introduction/background/data description(all of three)

QUESTION 7

7 Theory 10 / 10

✓ - 0 pts Correct

- 3 pts Chi-square/ exponential&uniform distribution/poisson distribution/maximum likelihood(did not explain one of four)
- 7 pts Chi-square/ exponential&uniform distribution/poisson distribution/maximum likelihood(did not explain two of four)

QUESTION 8

8 Extra Credit 10 / 10

✓ - 0 pts Correct

- 5 pts Click here to replace this description.
- 7 pts Click here to replace this description.
- 10 pts Click here to replace this description.