

Statistics Summer Work for 2019-20 School Year

Hello Soon-to-be-Stats Students,

The first two sections of The Practice of Statistics introduce statistic vocabulary and some math that you may have seen in your science classes. I believe that you can do much of the work from these sections on your own during the summer. This allows us more time during the year to work on the difficult material.

In many ways Statistics is more like a science class than a math class. Learning definitions and concepts is important. Don't just skim through the reading. Make sure you understand it. Your assignments for this summer will include reading as well as problems.

This work is due first week of school. This gives us a couple of days to review problems you may not understand. Feel free to email me during the summer if you have questions. I will be out in and out of town, so may take a couple of days to a week for me to respond, but I will check my emails. Also, I will be at school a week before school starts. I am happy to meet you at school one day during that week to answer questions.

The math department homework policy applies to this work: Students may, and are encouraged to, work together. However, students should be able to explain the answer to any problem they complete.

Summer work counts as a 50 point quiz.

Have a good summer. I look forward to seeing you in August.

Ms. Bank

(Assignments on back)

Statistics Summer Work

Read: *What is Statistics* (pgs: xx – xiv)

CHAPTER 1: EXPLORING DATA

- Read Case Study: *Do Rewards Promote Creativity?* and Introduction: *Data Analysis: Making Sense of Data* (pgs: 1 – 6)
- Complete problems: pg. 7: 3, 5, and 7

1.1 ANALYZING CATEGORICAL DATA

- Read *Bar Graphs and Pie Charts* (pgs: 8 – 14)
- Complete problems pg. 22: 9, 10(parts a and c), 11, 13, and 18

1.2 DISPLAYING QUANTITATIVE DATA WITH GRAPHS

- Read *Dotplots, Describing Shape, and Stemplots* (pgs: 27 – 35)
- Complete problems
 - pg. 31: 1 – 4 (Check Your Understanding)
 - pg. 35: 1 – 4 (Check Your Understanding)
 - pg. 42: 37, 39, 41, 45

As with all math books, answers for odd-numbered problems are in the back of the book. Definitely check your answers and correct mistakes.

** Much of statistics is defending or explaining your process. You should be prepared to do some writing in this class. Answers to all questions (homework, quizzes, tests, etc..) should be written in complete sentences!*