

DRAFT: Instructions for Quiz 1

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This document contains just the instructions; none of the questions. It's a draft, and may change between now and when the final version (which will also include the questions) is posted on 2023-02-23.

Links

We'll post all Quiz 1 links at <https://thomaselove.github.io/432-2023/quiz1.html> no later than 5 PM on Thursday 2023-02-23.

This will include links to:

- the Main Document (which will replace this PDF) and will at that time contain both a revised version of these instructions *and* the actual set of questions
- the Google Form Answer Sheet, and
- the five data sets we're providing

Instructions

The full PDF document is **26** pages long. There are **28** questions on this Quiz. It is to your advantage to answer all of the Questions. Your score is based on the number of correct responses, so there's no chance a blank response will be correct, and a guess might be, so you should definitely answer all of the questions.

0.1 The Google Form Answer Sheet

All of your answers should be placed in the Google Form Answer Sheet, and we will provide a link to that sheet on 2023-02-23. All of your answers must be submitted through the Google Form by **9 PM** on Monday 2023-02-27, without exception. The form will close at 9:30 PM, and no extensions beyond that time will be made available, so please do not wait until Monday evening to submit. We will not accept any responses except through the Google Form.

The Google Form contains places to provide your responses to each question, and a final affirmation where you'll type in your name to tell us that you followed the rules for the Quiz. You must complete that affirmation and then submit your results. When you submit your results (in the same way you submit a Minute Paper) you will receive an email copy of your submission, with a link that will allow you to edit your results. The Answer Sheet works like a Minute Paper, in that you must be logged into Google via CWRU to access it.

If you wish to work on some of the quiz and then return later, you can do this by [1] completing the final question (the affirmation) which asks you to type in your full name, and then [2] submitting the quiz. You will then receive a link at your CWRU email which will allow you to return to the Quiz Answer Sheet as often as you like without losing your progress.

0.2 The Data Sets

I have provided **five** data sets (and we'll specify their names in the final version of these instructions) that are mentioned in the Quiz. Each of these may (or may not) be helpful to you.

0.3 Getting Help

This is an open book, open notes quiz. You are welcome to consult the materials provided on the course website and that we've been reading in the class, but you are not allowed to discuss the questions on this quiz with anyone other than Professor Love and the teaching assistants. You will be required to complete a short affirmation that you have obeyed these rules as part of submitting the Quiz.

If you need clarification on a Quiz question, you have exactly two ways of getting help:

1. You can ask your question in a **private** post on Campuswire to the instructors and TAs using the "Quiz 1" label.
2. You can ask your question via email to **431-help at case dot edu**.

During the Quiz period (2023-02-23 through 2023-02-27) we will not answer questions about the Quiz except through the two approaches listed above. We promise to respond to all questions received before 5 PM on 2023-02-27 in a timely fashion.

A few cautions:

- Specific questions are more likely to get helpful answers.
- We will not review your code or your English for you.
- We will not tell you if your answer is correct, or if it is complete.
- We will post to Campuswire in the “Quiz 1” folder and [to the Quiz 1 page](#) if we find an error in the Quiz that needs fixing.

0.4 When Should I Ask for Help?

We recommend the following process.

- If you encounter a tough question, skip it, and build up your confidence by tackling other questions.
- When you return to the tough question, spend no more than 10-15 minutes on it. If you still don't have it, take a break (not just to do other questions) but an actual break.
- When you return to the question, it may be much clearer to you. If so, great. If not, spend 5-10 minutes on it, at most, and if you are still stuck, ask us for help.
- This is not to say that you cannot ask us sooner than this, but you should **never, ever** spend more than 20 minutes on any question without asking for help.

0.5 Scoring and Timing

All questions are worth 2, 3, 4, or 5 points, as indicated, adding to a total of 100 points. The questions are not in any particular order, and range in difficulty from “things Dr. Love expects everyone to get right” to “things that are deliberately tricky”. Some questions will take more time than others to answer.

The Quiz is meant to take 4-5 hours to complete. I expect most students will take 3-6 hours, and some will take as little as 2 or as many as 8. Again, it is **not** a good idea to spend a long time on any one question.

Dr. Love will grade the Quiz, and results (including an answer sketch) will be available by class time on Thursday 2023-03-02.

0.6 What does the Quiz cover?

Quiz A includes material from the first 11 classes in 432, as well as:

- Chapters 5, 8-17 and 19-22 of the 432 course notes, and
- all of Jeff Leek's *How to be a Modern Scientist*.

0.7 Writing Code into the Answer Sheet

Occasionally, we ask you to provide R code in your response. You need not include the `library` command at any time for any of your code. Assume in all questions that all relevant packages have been loaded in R.

0.8 R Packages and Settings

This is the set of packages Dr. Love drew from in creating this test and the sketch.

1. This doesn't mean you need to use all of these packages.
2. This doesn't mean that Dr. Love used all of these packages in building my sketch and the test itself.
3. This also doesn't mean that you are prevented from using other packages we've discussed in class to complete the Quiz, but it is definitely possible to complete all tasks using only these packages.

```
knitr::opts_chunk$set(comment = NA)
```

```
library(broom)
library(car)
library(caret)
library(equationomatic)
library(GGally)
library(glue)
library(gt)
library(Hmisc)
library(janitor)
library(knitr)
library(MASS)
library(mosaic)
library(naniar)
library(patchwork)
library(pROC)
library(rms)
library(ROCR)
library(rsample)
library(simputation)
library(tidyverse)
```

```
theme_set(theme_bw())
```