

Syllabus Quiz for Math 150

your name here

due: Friday, January 29, 2021

The syllabus is an agreement between the professor and students. It explains your responsibilities, lays out the structure, and gives you information on how best to achieve the course goals. Like any agreement, it must be read carefully and referenced frequently to answer questions. This fun activity will highlight some important parts of the syllabus and give you a chance to try out R!¹

Instructions

Answer each question below by typing a response. Then knit the file to a compiled pdf, and submit it to Gradescope (via Sakai).

Hint: To compile to pdf, you might need to use the `tinytex` package (you'll know you need it if you can knit to html but not to pdf). In the console (below, do you see where it says "Console"?), only one time ever, type the following. Ask me if it doesn't work automatically for you. (Don't spend hours figuring this part out, ask me immediately.)

```
install.packages('tinytex')
tinytex::install_tinytex()
https://yihui.name/tinytex/
```

Q1. On which dates are the exams?

After you've marked the exam dates in your calendar, answer the following question: what type of calendar do you keep? (e.g., Google calendar, outlook, paper journal, post-its all over your desk, etc.)

Q2. Provide three pieces of information from the syllabus related to class participation.

Q3. Will course notes be available and posted? If so, where?

Q4. What is the software program we are using for the class? After watching the R video, ask one question that you have about R. [If you are already familiar with R, you don't need to watch the video, but you surely can think up one question about R.]

Q5. Run the code below one line at a time. Provide a few words (either after hashtags or in writing below the R code) describing what each line of code is doing.

```
mydata <- c(1:10) # if you want, your words of explanation can come after the hashtag
mydata
```

```
## [1] 1 2 3 4 5 6 7 8 9 10
```

```
mydata^2
```

```
## [1] 1 4 9 16 25 36 49 64 81 100
```

¹adapted from David White at Denison University.

```

sample(mydata, size = 25, replace = TRUE)

## [1] 7 10 6 8 10 2 2 8 5 1 7 10 3 10 3 8 10 10 5 2 7 8 10 9 6

mydata2 <- sample(mydata, size = 25, replace = TRUE)
mydata2

## [1] 1 9 6 8 6 5 5 7 2 10 6 4 7 2 2 2 9 9 8 9 9 1 3 6 5

```

Q6. Nice job! Run the chunk of code below. You might need to install the `praise` package. See the top of this file.

```

praise()

## [1] "You are exceptional!"

```

Note: if you want your output to remain constant, use the `set.seed()` function. The function will control the randomness associated with the task you've asked of R. For example, you asked R to sample from some integers. Do you want the sample of integers to stay the same every time? Well, use `set.seed()`! The only argument you need for `set.seed()` is a single integer. You can choose *any* integer you want. And the function goes before (either right before or at the top of the file) the command where R is doing something random. Here is an example of some code (which won't be run) where the randomness is controlled. Try it yourself in your work above.

```

set.seed(47)
sample(mydata, size = 25, replace = TRUE)

```