## W46: Start with R

1) Use R to figure out how many elements in the vector below are greater than 2. rooms <- c(1, 2, 1, 3, 1, NA, 3, 1, 3, 2, 1, NA, 1, 8, 3, 1, 4, NA, 1, 3, 1, 2, 1, 7, 1, NA)

## **Explanation:**

First I apply rooms with the numbers (and NAs) listed in the task. If I have to find all the numbers that are greater than 2 I have to sort out the NAs. This is done with the code: rooms[!is.na(rooms)] Now I make a new rooms called "rooms1" – This version of rooms only contains numbers, and as such has sorted out the "NA".

I can now apply the subsetting with the sqare brackets and use the following code to find all the numbers that are greater than 2: rooms1[rooms1>2]. I then get the answer: 3 3 3 8 3 4 3 7 – A total of 8 digits are greater than 2

## **Script:**

```
rooms <-c(1, 2, 1, 3, 1, NA, 3, 1, 3, 2, 1, NA, 1, 8, 3, 1, 4, NA, 1, 3, 1, 2, 1, 7, 1, NA)
rooms1<- rooms[!is.na(rooms)]
rooms1[rooms1>2]
```

## Console:

```
> rooms1[rooms1>2]
[1] 3 3 3 8 3 4 3 7
```

2) What type of data is in the 'rooms' vector?

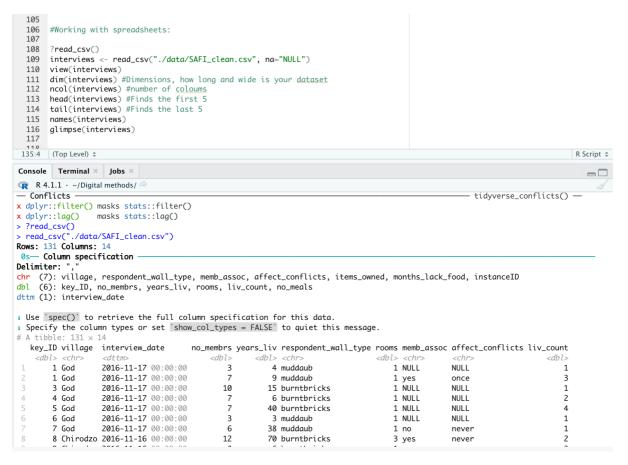
I use the command class(rooms) and the answer is numeric

3) What is the result of running the median() function on the above 'rooms' vector?

```
a)The result is 1.5 using the median(rooms, na.rm=TRUE) function > median(rooms, na.rm=TRUE)
[11] 1.5
```

4) Submit the following image to Github: Inside your R Project (.Rproj), install the 'tidyverse' package and use the download.file() and read\_csv() function to read the SAFI\_clean.csv dataset into your R project as 'interviews' digital object (see instructions in https://datacarpentry.org/r-socialsci/setup.html and 'Starting with Data' section). Take a screenshot of your RStudio interface showing

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- a) the line of code you used to create the object
  - a. interviews <- read csv("./data/SAFI clean.csv", na="NULL")
- b) the 'interviews' object in the Environment



c) the file structure of your R project in the bottom right "Files" pane.

