

Answer Key

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1 General Instructions

Below you will find a list of tasks. Some tasks require you to provide an answer. In this case, please type your answer directly under the question and format your answer in **bold**. In other cases, you may be asked to write some code in a blank code chunk.

Some of the tasks will require you to pull code from the analysisTemplate repo. Find it here: <https://github.com/dczhang1/analysisTemplates.git>

1.1 1. Please change the title, author, and date of this rmd file to something reasonable

1.2 2. Run the following code chunk and explain what the purpose of this code chunk in a sentence or two.

```
source("01_load.R")

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v purrr  0.3.4
## v tibble  3.1.4      v dplyr  1.0.7
## v tidyr   1.1.3      v stringr 1.4.0
## v readr   2.1.2      v forcats 0.5.1

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()     masks stats::lag()

##
## Attaching package: 'psych'

## The following objects are masked from 'package:ggplot2':
##
##   %+%, alpha

## This is lavaan 0.6-9
## lavaan is FREE software! Please report any bugs.

##
## Attaching package: 'lavaan'

## The following object is masked from 'package:psych':
##
##   cor2cov

## # Attaching packages: easystats 0.4.3 (red = needs update)
## x insight      0.17.1.7    v datawizard  0.4.1.3
## v bayestestR    0.12.1.1    x performance 0.9.0.6
## v parameters   0.18.1.2    v effectsize  0.7.0
```

```
## v modelbased 0.8.1.1 v correlation 0.8.1.1
## x see 0.7.0.2 v report 0.5.1.1
##
## Restart the R-Session and update packages in red with 'easystats::easystats_update()'.

##
## Attaching package: 'jmv'

## The following object is masked from 'package:lavaan':
##
## cfa

## The following objects are masked from 'package:psych':
##
## pca, reliability
```

- 1.3 2. Write the script needed to import the datafile into R in the code chunk below. Name the dataframe for as “df_risk_raw”. Also explain words, where would this data import code go in a normal project? In other words, if not working on this worksheet, where would the script for importing data go?

```
df_risk_raw <- read_csv("Data/WorkplaceData_raw.csv")
```

```
## Rows: 497 Columns: 536
```

```
## -- Column specification -----
## Delimiter: ","
## chr (10): Filler, PROLIFIC_PID, AT2, OccTitle, OccCode, ETHNICITY_13_TEXT, ...
## dbl (523): EMPstatProlific, EMPstat2, EMPSTAT2, HH1, CS1, HH2, CS2, HH3, CS3...
## lgl (2): T2_TimeChange, T3_TimeChange

##
## i Use 'spec()' to retrieve the full column specification for this data.
## i Specify the column types or set 'show_col_types = FALSE' to quiet this message.
```

- 1.4 3. Run the code above to make sure that the data is imported with no errors and is shown in your Environment

- 1.5 4. Look at the data object df_risk_raw. How many subjects and variables are in this dataframe?

- 1.6 5. Run the following chunk to see a list of variables

```
names(df_risk_raw)
```

##	[1]	"Filler"	"PROLIFIC_PID"	"EMPstatProlific"
##	[4]	"EMPstat2"	"EMPSTAT2"	"HH1"
##	[7]	"CS1"	"HH2"	"CS2"
##	[10]	"HH3"	"CS3"	"HH4"
##	[13]	"CS4"	"HH5"	"CS5"
##	[16]	"HH6"	"CS6"	"HH7"
##	[19]	"CS7"	"HH8"	"CS8"
##	[22]	"HH9"	"CS9"	"HH10"
##	[25]	"CS10"	"HH11"	"CS11"
##	[28]	"HH12"	"CS12"	"HH13"
##	[31]	"CS13"	"HH14"	"CS14"
##	[34]	"HH15"	"CS15"	"HH16"
##	[37]	"CS16"	"EX1"	"AG1"
##	[40]	"NEG1"	"OM1"	"EX2"
##	[43]	"AG2"	"NEG2"	"OM2"
##	[46]	"EX3"	"AG3"	"NEG3"
##	[49]	"OM3"	"AT1"	"GRIP1"
##	[52]	"GRIP2"	"GRIP3"	"GRIP4"
##	[55]	"GRIP5"	"GRIP6"	"GRIP7"
##	[58]	"GRIP8"	"IUS1"	"IUS2"
##	[61]	"IUS3"	"IUS4"	"IUS5"
##	[64]	"IUS6"	"IUS7"	"IUS8"
##	[67]	"IUS9"	"IUS10"	"IUS11"
##	[70]	"IUS12"	"CW1"	"CW2"
##	[73]	"CW3"	"CW4"	"CW5"
##	[76]	"CW6"	"CW7"	"CW8"
##	[79]	"CW9"	"CW10"	"CW11"
##	[82]	"CW12"	"CW13"	"CW14"
##	[85]	"CW15"	"CW16"	"CW17"
##	[88]	"CW18"	"CW19"	"CW20"
##	[91]	"AT2"	"CWES1"	"CWES2"
##	[94]	"CWES3"	"CWES4"	"CWES5"
##	[97]	"CWES6"	"CWES7"	"CWES8"
##	[100]	"CWES9"	"CWES10"	"CWES11"
##	[103]	"CWES12"	"CWES13"	"CWES14"
##	[106]	"CWES15"	"CWES16"	"CWES17"
##	[109]	"CWES18"	"CWES19"	"CWES20"
##	[112]	"MOB1"	"MOB2"	"MOB3"
##	[115]	"MOB4"	"MOB5"	"MOB6"
##	[118]	"MOB7"	"MOB8"	"ID1"
##	[121]	"ID2"	"ID3"	"ID4"
##	[124]	"AT3"	"EFF1"	"EFF2"
##	[127]	"EFF3"	"EFF4"	"EFF5"
##	[130]	"EFF6"	"EFF7"	"EFF8"
##	[133]	"Ladder1"	"Ladder2"	"Ladder3"
##	[136]	"SM1"	"SM2"	"SM3"
##	[139]	"SM4"	"SM5"	"SM6"
##	[142]	"SM7"	"SM8"	"SM9"
##	[145]	"SM10"	"SM11"	"SM12"
##	[148]	"SM13"	"AT4"	"OccTitle"
##	[151]	"OccCode"	"WorkTen"	"PosTen"
##	[154]	"AGE_1"	"GENDER"	"GENDER_6_TEXT"
##	[157]	"COUNTRY"	"USA"	"CAN"
##	[160]	"UK"	"PolOr"	"USAvote"

## [163]	"CANvote"	"UKvote"	"ETHNICITY"
## [166]	"ETHNICITY_13_TEXT"	"LANG"	"LANG_4_TEXT"
## [169]	"EDU"	"MAJOR"	"MARITAL"
## [172]	"CHILD"	"PERSINCcan"	"PERSINCusa"
## [175]	"PERSINCuk"	"HHLDINCcan"	"HHLDINCusa"
## [178]	"HHLDINCuk"	"SPAREINCcan"	"SPAREINCusa"
## [181]	"SPAREINCuk"	"T2_Change"	"T2_TimeChange"
## [184]	"T2_EMPstatProlific"	"T2_EMPstat2"	"T2_Country"
## [187]	"T2_EMPSTAT2"	"T2_B01"	"T2_B02"
## [190]	"T2_B03"	"T2_B04"	"T2_B05"
## [193]	"T2_B06"	"T2_B07"	"T2_B08"
## [196]	"T2_B09"	"T2_B010"	"T2_B011"
## [199]	"T2_B012"	"T2_B013"	"T2_B014"
## [202]	"T2_B015"	"T2_B016"	"T2_JS1"
## [205]	"T2_JS2"	"T2_JS3"	"T2_JS4"
## [208]	"T2_JS5"	"T2_JS6"	"T2_JS7"
## [211]	"T2_JS8"	"T2_JS9"	"T2_JS10"
## [214]	"T2_PDI1"	"T2_PDI2"	"T2_PDI3"
## [217]	"T2_PDI4"	"T2_PDI5"	"T2_PDI6"
## [220]	"T2_PDI7"	"T2_PDI8"	"T2_PDI9"
## [223]	"T2_PDI10"	"T2_PDI11"	"T2_PDI12"
## [226]	"T2_AT1"	"T2_PANAS1"	"T2_PANAS2"
## [229]	"T2_PANAS3"	"T2_PANAS4"	"T2_PANAS5"
## [232]	"T2_PANAS6"	"T2_PANAS7"	"T2_PANAS8"
## [235]	"T2_PANAS9"	"T2_PANAS10"	"T2_PANAS11"
## [238]	"T2_PANAS12"	"T2_PANAS13"	"T2_PANAS14"
## [241]	"T2_PANAS15"	"T2_PANAS16"	"T2_PANAS17"
## [244]	"T2_PANAS18"	"T2_PANAS19"	"T2_PANAS20"
## [247]	"T2_BM1"	"T2_BM2"	"T2_BM3"
## [250]	"T2_BM4"	"T2_BM5"	"T2_BM6"
## [253]	"T2_BM7"	"T2_BM8"	"T2_BM9"
## [256]	"T2_BM10"	"T2_MHI1"	"T2_MHI2"
## [259]	"T2_MHI3"	"T2_MHI4"	"T2_MHI5"
## [262]	"T2_UNC1"	"T2_UNC2"	"T2_UNC3"
## [265]	"T2_UNC4"	"T2_AT2"	"T2_BORE1"
## [268]	"T2_BORE2"	"T2_BORE3"	"T2_BORE4"
## [271]	"T2_BORE5"	"T2_BORE6"	"T2_BORE7"
## [274]	"T2_OCB1"	"T2_OCB2"	"T2_OCB3"
## [277]	"T2_OCB4"	"T2_OCB5"	"T2_OCB6"
## [280]	"T2_OCB7"	"T2_OCB8"	"T2_OCB9"
## [283]	"T2_OCB10"	"T2_OCB11"	"T2_OCB12"
## [286]	"T2_OCB13"	"T2_OCB14"	"T2_OCB15"
## [289]	"T2_OCB16"	"T2_OCB17"	"T2_OCB18"
## [292]	"T2_OCB19"	"T2_OCB20"	"T2_PRB1"
## [295]	"T2_PRB2"	"T2_PRB3"	"T2_PRB4"
## [298]	"T2_PRB5"	"T2_PRB6"	"T2_PRB7"
## [301]	"T2_PRB8"	"T2_PRB9"	"T2_PRB10"
## [304]	"T2_PRB11"	"T2_PRB12"	"T2_PRB13"
## [307]	"T2_AT3"	"T2_CWB1"	"T2_CWB2"
## [310]	"T2_CWB3"	"T2_CWB4"	"T2_CWB5"
## [313]	"T2_CWB6"	"T2_CWB7"	"T2_CWB8"
## [316]	"T2_CWB9"	"T2_CWB10"	"T2_CWB11"
## [319]	"T2_CWB12"	"T2_CWB13"	"T2_CWB14"
## [322]	"T2_CWB15"	"T2_CWB16"	"T2_CWB17"

## [325]	"T2_CWB18"	"T2_CWB19"	"T2_CWB20"
## [328]	"T2_CWB21"	"T2_CWB22"	"T2_CWB23"
## [331]	"T2_CWB24"	"T2_CWB25"	"T2_CWB26"
## [334]	"T2_CWB27"	"T2_CWB28"	"T2_CWB29"
## [337]	"T2_CWB30"	"T2_CWB31"	"T2_CWB32"
## [340]	"T2_TI1"	"T2_TI2"	"T2_TI3"
## [343]	"T2_SV1"	"T2_SV2"	"T2_SV3"
## [346]	"T2_SV4"	"T2_SV5"	"T2_SV6"
## [349]	"T2_SV7"	"T2_CV1"	"T2_CV2"
## [352]	"T2_CV3"	"T2_AT4"	"ControlUSA"
## [355]	"ControlUK"	"ControlCAN"	"Ex1USA"
## [358]	"Ex1UK"	"Ex1CAN"	"T3_EMPstatProlific"
## [361]	"T3_EMPstat2"	"T3_Change"	"T3_TimeChange"
## [364]	"T3_EMPSTAT2"	"T3_B01"	"T3_B02"
## [367]	"T3_B03"	"T3_B04"	"T3_B05"
## [370]	"T3_B06"	"T3_B07"	"T3_B08"
## [373]	"T3_B09"	"T3_B010"	"T3_B011"
## [376]	"T3_B012"	"T3_B013"	"T3_B014"
## [379]	"T3_B015"	"T3_B016"	"T3_T6_Click Count"
## [382]	"T3_JS1"	"T3_JS2"	"T3_JS3"
## [385]	"T3_JS4"	"T3_JS5"	"T3_JS6"
## [388]	"T3_JS7"	"T3_JS8"	"T3_JS9"
## [391]	"T3_JS10"	"T3_PDI1"	"T3_PDI2"
## [394]	"T3_PDI3"	"T3_PDI4"	"T3_PDI5"
## [397]	"T3_PDI6"	"T3_PDI7"	"T3_PDI8"
## [400]	"T3_PDI9"	"T3_PDI10"	"T3_PDI11"
## [403]	"T3_PDI12"	"T3_AT1"	"T3_PANAS1"
## [406]	"T3_PANAS2"	"T3_PANAS3"	"T3_PANAS4"
## [409]	"T3_PANAS5"	"T3_PANAS6"	"T3_PANAS7"
## [412]	"T3_PANAS8"	"T3_PANAS9"	"T3_PANAS10"
## [415]	"T3_PANAS11"	"T3_PANAS12"	"T3_PANAS13"
## [418]	"T3_PANAS14"	"T3_PANAS15"	"T3_PANAS16"
## [421]	"T3_PANAS17"	"T3_PANAS18"	"T3_PANAS19"
## [424]	"T3_PANAS20"	"T3_BM1"	"T3_BM2"
## [427]	"T3_BM3"	"T3_BM4"	"T3_BM5"
## [430]	"T3_BM6"	"T3_BM7"	"T3_BM8"
## [433]	"T3_BM9"	"T3_BM10"	"T3_MHI1"
## [436]	"T3_MHI2"	"T3_MHI3"	"T3_MHI4"
## [439]	"T3_MHI5"	"T3_UNC1"	"T3_UNC2"
## [442]	"T3_UNC3"	"T3_UNC4"	"T3_AT2"
## [445]	"T3_BORE1"	"T3_BORE2"	"T3_BORE3"
## [448]	"T3_BORE4"	"T3_BORE5"	"T3_BORE6"
## [451]	"T3_BORE7"	"T3_OCB1"	"T3_OCB2"
## [454]	"T3_OCB3"	"T3_OCB4"	"T3_OCB5"
## [457]	"T3_OCB6"	"T3_OCB7"	"T3_OCB8"
## [460]	"T3_OCB9"	"T3_OCB10"	"T3_OCB11"
## [463]	"T3_OCB12"	"T3_OCB13"	"T3_OCB14"
## [466]	"T3_OCB15"	"T3_OCB16"	"T3_OCB17"
## [469]	"T3_OCB18"	"T3_OCB19"	"T3_OCB20"
## [472]	"T3_PRB1"	"T3_PRB2"	"T3_PRB3"
## [475]	"T3_PRB4"	"T3_PRB5"	"T3_PRB6"
## [478]	"T3_PRB7"	"T3_PRB8"	"T3_PRB9"
## [481]	"T3_PRB10"	"T3_PRB11"	"T3_PRB12"
## [484]	"T3_PRB13"	"T3_AT3"	"T3_CWB1"

```
## [487] "T3_CWB2"          "T3_CWB3"          "T3_CWB4"
## [490] "T3_CWB5"          "T3_CWB6"          "T3_CWB7"
## [493] "T3_CWB8"          "T3_CWB9"          "T3_CWB10"
## [496] "T3_CWB11"         "T3_CWB12"         "T3_CWB13"
## [499] "T3_CWB14"         "T3_CWB15"         "T3_CWB16"
## [502] "T3_CWB17"         "T3_CWB18"         "T3_CWB19"
## [505] "T3_CWB20"         "T3_CWB21"         "T3_CWB22"
## [508] "T3_CWB23"         "T3_CWB24"         "T3_CWB25"
## [511] "T3_CWB26"         "T3_CWB27"         "T3_CWB28"
## [514] "T3_CWB29"         "T3_CWB30"         "T3_CWB31"
## [517] "T3_CWB32"         "T3_TI1"           "T3_TI2"
## [520] "T3_TI3"           "T3_T20_Click Count" "T3_SV1"
## [523] "T3_SV2"           "T3_SV3"           "T3_SV4"
## [526] "T3_SV5"           "T3_SV6"           "T3_SV7"
## [529] "T3_CV1"           "T3_CV2"           "T3_CV3"
## [532] "T3_WD1"           "T3_WD2"           "T3_WD3"
## [535] "T3_WD4"           "T3_AT4"
```

1.7 6. Find the “Reference” folder in the directory and open the codebook word document to answer the following questions:

1.7.1 6.1) What is variable HH6?

1.7.2 6.2) What is variable CW15?

1.7.3 6.3) Which items are part of the “General Risk Propensity Scale”?

1.7.4 6.4) How many items are in the Perceived Disadvantage Index?

1.8 7. Write the script for creating a dataframe that contains *only* the items for the General Risk Propensity Scale

```
select(df_risk_raw, GRIP1:GRIP8)
```

```
## # A tibble: 497 x 8
##   GRIP1 GRIP2 GRIP3 GRIP4 GRIP5 GRIP6 GRIP7 GRIP8
##   <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1     2     1     1     1     1     1     4     1
## 2     1     1     1     1     1     1     2     1
## 3     4     2     2     2     2     2     4     2
## 4     2     2     2     2     3     2     4     2
## 5     4     1     1     1     2     2     4     1
## 6     5     5     5     5     5     5     5     5
## 7     4     2     2     1     2     2     4     4
## 8     4     3     3     4     3     2     4     3
## 9     4     2     2     3     2     2     4     2
## 10    4     1     3     2     4     2     4     2
## # ... with 487 more rows
```

1.9 8. Write the script for creating a dataframe with participants between ages 18 and 24

```
filter(df_risk_raw, AGE_1 < 24, AGE_1 > 18)
```

```
## # A tibble: 134 x 536
##   Filler PROLIFIC_PID EMPstatProlific EMPstat2 EMPSTAT2 HH1 CS1 HH2 CS2
##   <chr> <chr>          <dbl> <dbl> <dbl> <dbl> <dbl> <dbl> <dbl>
## 1 . 60feeaff1dc~      2 1 1 4 2 2 4
## 2 . 6101b2bd773~      1 1 4 3 2 4 2
## 3 . 60fef0a1f31~      1 1 2 4 4 1 4
## 4 . 60fee15059c~      1 1 3 4 5 2 4
## 5 . 5bfac2001cd~      1 1 2 4 4 5 4
## 6 . 6085e807672~      1 1 2 3 4 2 4
## 7 . 60feb1c443~      1 1 3 4 4 2 3
## 8 . 60ff10b949a~      1 1 3 3 3 2 3
## 9 . 60fef1bee56~      1 1 3 4 4 5 4
## 10 . 60fcec383da~      1 1 2 4 4 4 4
## # ... with 124 more rows, and 527 more variables: HH3 <dbl>, CS3 <dbl>,
## # HH4 <dbl>, CS4 <dbl>, HH5 <dbl>, CS5 <dbl>, HH6 <dbl>, CS6 <dbl>,
## # HH7 <dbl>, CS7 <dbl>, HH8 <dbl>, CS8 <dbl>, HH9 <dbl>, CS9 <dbl>,
## # HH10 <dbl>, CS10 <dbl>, HH11 <dbl>, CS11 <dbl>, HH12 <dbl>, CS12 <dbl>,
## # HH13 <dbl>, CS13 <dbl>, HH14 <dbl>, CS14 <dbl>, HH15 <dbl>, CS15 <dbl>,
## # HH16 <dbl>, CS16 <dbl>, EX1 <dbl>, AG1 <dbl>, NEG1 <dbl>, OM1 <dbl>,
## # EX2 <dbl>, AG2 <dbl>, NEG2 <dbl>, OM2 <dbl>, EX3 <dbl>, AG3 <dbl>, ...
```

1.10 9. Create a new variable in the data frame “Mean_GRIPS” based on the average of all of the items in the General Risk Propensity Scale using the rowMeans function (find script in the 02_clean.R file in the analysisTemplate repo)

```
df_risk_raw$Mean_GRIPS <- rowMeans(
  df_risk_raw[,c("GRIP1", "GRIP2", "GRIP3", "GRIP4", "GRIP5",
    "GRIP6", "GRIP7", "GRIP8")], na.rm = T)
```

1.11 10. Repeat step 9 using the scoreItem function provided in the same file. For this situation, all the items are positively coded. Name this new variable “Mean_GRIPS_2”

```
df_risk_raw$Mean_GRIPS_2 <- as.vector(
  scoreItems(keys = c(1,1,1,1,1,1,1,1),
    items = select(df_risk_raw, "GRIP1":"GRIP8"))$score)
```

We will now perform some very basic descriptive statistics on our dataset.

1.12 11. We will first calculate the mean, standard deviation, and variance of the Mean_GRIPS variable. Just run the following script.

```
mean(df_risk_raw$Mean_GRIPS)
```

```
## [1] 2.69668
```

```
sd(df_risk_raw$Mean_GRIPS)
```

```
## [1] 0.9004362
```

```
var(df_risk_raw$Mean_GRIPS)
```

```
## [1] 0.8107853
```

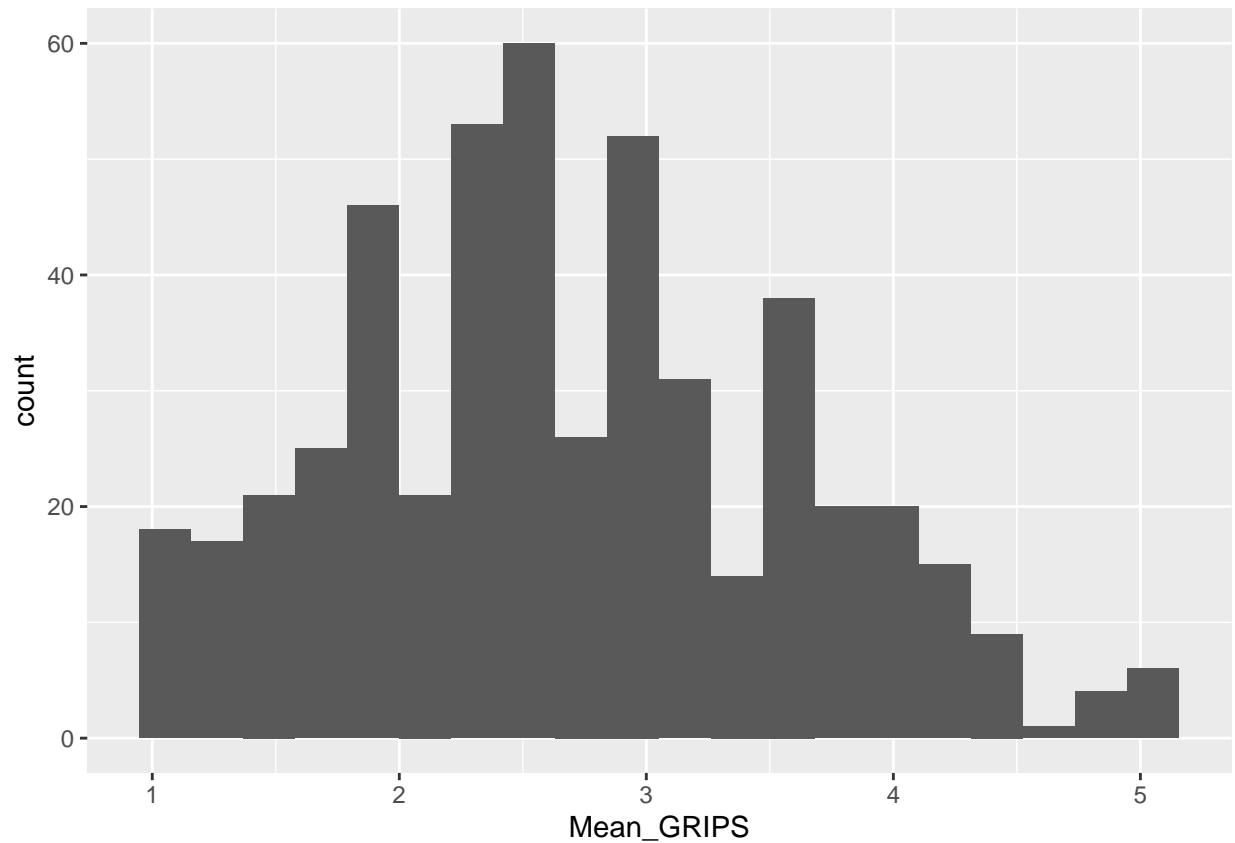
1.13 12. Now lets use the describe function on Mean_GRIPS to create a more thorough summary

```
describe(df_risk_raw$Mean_GRIPS)
```

```
##      vars    n mean  sd median trimmed  mad min max range skew kurtosis   se
## X1      1 497  2.7 0.9   2.62   2.67 0.93   1  5    4 0.28   -0.41 0.04
```

1.14 13. Create a histogram of the variable Mean_GRIPS (hint: See script in 3__describe.R)

```
ggplot(df_risk_raw, aes(Mean_GRIPS)) +  
  geom_histogram(bins = 20)
```



1.15 14. Create a frequency table of education attainment within the sample

```
table(df_risk_raw$EDU)
```

```
##
##  1  2  3  4  5
##  2 142 254 85 14
```

1.16 15. Create a subset of the dataframe that is just variables: Age, Gender, and the Mean_GRIPS variable you created

```
select(df_risk_raw, AGE_1, GENDER, Mean_GRIPS)
```

```
## # A tibble: 497 x 3
##   AGE_1 GENDER Mean_GRIPS
##   <dbl> <dbl>     <dbl>
## 1    22      2         1.5
## 2    22      2         1.12
## 3    21      2         2.5
## 4    34      2         2.38
## 5    18      2          2
```

```
## 6      25      2      5
## 7      20      2     2.62
## 8      35      2     3.25
## 9      34      2     2.62
## 10     31      1     2.75
## # ... with 487 more rows
```

#16. We will make a simple correlation table using the `apa.cor.table` function in the package `apaTables`. First, type `?apa.cor.table` into the console for a brief documentation.

#17. Now, make a correlation table with Age, Gender, and Mean_GRIPS. (Find this script in the `3_descriptive.R` from the template.)

```
apa.cor.table(select(df_risk_raw, AGE_1, GENDER, Mean_GRIPS))
```

```
##
##
## Means, standard deviations, and correlations with confidence intervals
##
##
##   Variable      M      SD      1          2
## 1. AGE_1      30.00 10.33
##
## 2. GENDER      1.78  0.58  -.26**
##                  [-.34, -.18]
##
## 3. Mean_GRIPS  2.70  0.90  -.08          -.17**
##                  [-.17, .00] [-.26, -.08]
##
##
## Note. M and SD are used to represent mean and standard deviation, respectively.
## Values in square brackets indicate the 95% confidence interval.
## The confidence interval is a plausible range of population correlations
## that could have caused the sample correlation (Cumming, 2014).
## * indicates p < .05. ** indicates p < .01.
##
```

#18. Produce descriptive statistics for Age, Gender, and Mean_GRIPS using the **describe** function (hint: you should be able to do this in one line of code)

```
describe(select(df_risk_raw, AGE_1, GENDER, Mean_GRIPS))
```

```
##           vars    n mean    sd median trimmed  mad min max range skew kurtosis
## AGE_1         1 497 30.00 10.33  27.00   28.54 8.90  18  72   54 1.26    1.33
## GENDER        2 497  1.78  0.58   2.00    1.79 0.00   1   5    4 1.56    9.71
## Mean_GRIPS    3 497  2.70  0.90   2.62    2.67 0.93   1   5    4 0.28   -0.41
##           se
## AGE_1      0.46
## GENDER     0.03
## Mean_GRIPS 0.04
```

Your done! Now, go back to the top and make sure every chunk still works. Press the “Knit to HTML” button to turn all of this into a html document. If there are errors, please review the error message. Send the output HTML file to Don.

#19. Bonus: Make your HTML pretty with the prettydoc package: <https://prettydoc.statr.me/> Follow instructions here to produce a beautified version of the document.

Final remarks - we will be using rmarkdown notebooks like this for sharing analyses. However, you may use R Script files to keep your actual code, if you wish. You may also use multiple notebook files to separate/organize your analyses.