

The title

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The authors made the following contributions. First Author: Conceptualization, Writing - Original Draft Preparation, Writing - Review & Editing; Ernst-August Doelle: Writing - Review & Editing.

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## Abstract

One or two sentences providing a **basic introduction** to the field, comprehensible to a scientist in any discipline.

Two to three sentences of **more detailed background**, comprehensible to scientists in related disciplines.

One sentence clearly stating the **general problem** being addressed by this particular study.

One sentence summarizing the main result (with the words “**here we show**” or their equivalent).

Two or three sentences explaining what the **main result** reveals in direct comparison to what was thought to be the case previously, or how the main result adds to previous knowledge.

One or two sentences to put the results into a more **general context**.

Two or three sentences to provide a **broader perspective**, readily comprehensible to a scientist in any discipline.

*Keywords:* keywords

Word count: X

The title

## Methods

We report how we determined our sample size, all data exclusions (if any), all manipulations, and all measures in the study.

## Participants

## Material

## Procedure

## Data analysis

We used R (Version 4.0.4; R Core Team, 2021) and the R-packages *papaja* (Version 0.1.0.9997; Aust & Barth, 2020), and *tinylabels* (Version 0.2.0; Barth, 2021) for all our analyses.

## Import Data

Question 1 ## Integer

## # A tibble: 4,126 x 6

## HLTH.SleepHours Hours.Internet Hours.Exercise Hours.Work Hours.News

## <dbl> <dbl> <dbl> <dbl> <dbl>

## 1 6 10 14 14 4

## 2 6 5 24 0 4

## 3 6 14 7 35 5

## 4 4 15 10 65 4

## 5 7 2 5 60 1

```

52 ##      6              7              2              6              50              2
53 ##      7              6              4              1              41              0
54 ##      8              4              4              0              42              0
55 ##      9              7             10              1              0              8
56 ##     10              8             14              7              0              7
57 ## # ... with 4,116 more rows, and 1 more variable: HoursCharity <dbl>

58 ## tibble [4,126 x 68] (S3: tbl_df/tbl/data.frame)
59 ## $ Id                : num [1:4126] 1 1 2 2 3 3 4 4 5 5 ...
60 ## $ Wave              : Factor w/ 2 levels "2018","2019": 2 1 2 1 2 1 2 1 2 1 ...
61 ## $ years             : num [1:4126] 10.43 9.47 10.61 9.9 10.17 ...
62 ## $ Age              : num [1:4126] 47 46 47 46 53 52 60 59 84 84 ...
63 ## $ Male             : Factor w/ 2 levels "Male","Not_Male": 1 1 1 1 1 1 2 2 ...
64 ## $ Gender           : num [1:4126] 1 1 1 1 1 1 0 0 0 0 ...
65 ## $ Edu              : num [1:4126] 3 3 7 7 4 4 8 7 7 7 ...
66 ## $ Partner          : num [1:4126] 1 1 1 1 0 0 1 NA 0 0 ...
67 ## $ BornNZ           : num [1:4126] 1 1 1 1 1 1 1 1 1 1 ...
68 ## $ Employed         : num [1:4126] 1 0 1 1 1 1 1 NA 0 0 ...
69 ## $ BigDoms          : Factor w/ 5 levels "Buddhist","Christian",...: 4 4 4 4 ...
70 ## $ TSCORE           : num [1:4126] 3869 3520 3936 3677 3774 ...
71 ## $ GenCohort        : Factor w/ 5 levels "Gen Boomers: born >= 1946 & b.< ...
72 ## $ Religion.Church  : num [1:4126] 0 0 0 0 0 0 2 NA 0 0 ...
73 ## $ Religion.Believe.Cats : num [1:4126] 4 4 1 1 1 1 1 NA 3 1 ...
74 ## $ Relid            : num [1:4126] 0 0 0 0 0 0 7 7 2 2 ...
75 ## $ HLTH.Fatigue     : num [1:4126] 2 2 1 2 2 2 1 2 NA 1 ...
76 ## $ HLTH.SleepHours  : num [1:4126] 6 6 6 4 7 7 6 4 7 8 ...
77 ## $ HLTH.BMI         : num [1:4126] 23.1 23.1 35.1 13.1 34 ...
78 ## $ HLTH.Weight     : num [1:4126] 75 75 120 45 110 110 64 74 54.4 54.4 ...

```

```

79 ## $ HLTH.Height : num [1:4126] 1.8 1.8 1.85 1.85 1.8 1.8 1.58 1.58 1.6
80 ## $ HomeOwner : num [1:4126] NA 1 NA 0 NA 1 NA NA NA 0 ...
81 ## $ Pol.Orient : num [1:4126] 3 3 5 3 4 4 3 NA 4 4 ...
82 ## $ PATRIOT : num [1:4126] 4.5 5 6.5 7 4 4 5.5 4 6.5 6 ...
83 ## $ Env.SatNZEnvironment : num [1:4126] 7 4 7 7 7 7 4 3 7 8 ...
84 ## $ Env.MotorwaySpend : num [1:4126] 5 5 3 5 4 4 4 6 5 6 ...
85 ## $ Env.PubTransSubs : num [1:4126] 5 6 5 5 4 4 7 6 4 6 ...
86 ## $ Env.ClimateChgConcern : num [1:4126] 6 6 7 7 4 4 6 NA 4 2 ...
87 ## $ LIFEMEANING : num [1:4126] 5 6.5 5 4.5 5.5 5.5 7 7 5 6 ...
88 ## $ Hours.Internet : num [1:4126] 10 5 14 15 2 2 4 4 10 14 ...
89 ## $ Issue.GovtSurveillance : num [1:4126] 3 1 3 3 4 4 1 2 4 3 ...
90 ## $ Issue.RegulateAI : num [1:4126] NA 1 NA 4 NA 4 NA 3 NA 4 ...
91 ## $ Issue.IncomeRedistribution : num [1:4126] 3 2 4 4 2 4 7 6 4 3 ...
92 ## $ Hours.Exercise : num [1:4126] 14 24 7 10 5 6 1 0 1 7 ...
93 ## $ Hours.Work : num [1:4126] 14 0 35 65 60 50 41 42 0 0 ...
94 ## $ Hours.News : num [1:4126] 4 4 5 4 1 2 0 0 8 7 ...
95 ## $ CONSCIENTIOUSNESS : num [1:4126] 4.75 5.25 5.5 5.5 5 4.25 4.75 4.75 NA 5.
96 ## $ EXTRAVERSION : num [1:4126] 3.25 2.75 4.75 4 3.75 4.5 5.75 4.25 NA 4
97 ## $ AGREEABLENESS : num [1:4126] 4.5 5 5 6 5.75 5.25 5 5.25 NA 5 ...
98 ## $ OPENNESS : num [1:4126] 6.5 7 4.25 4.25 6 6 5.75 6.25 NA 5 ...
99 ## $ Religious : Factor w/ 2 levels "Not_Religious",...: 1 1 1 1 1 1 2
100 ## $ Spiritual.Identification : num [1:4126] NA 1 NA 5 NA 4 NA NA NA 2 ...
101 ## $ Believe.God : Factor w/ 2 levels "Believe God",...: 2 2 1 1 1 1 1 NA
102 ## $ Believe.Spirit : Factor w/ 2 levels "Believe Spirit",...: 2 2 1 1 1 1 1
103 ## $ HoursCharity : num [1:4126] 2 0 0 2 0 0 0 4 0 0 ...
104 ## $ CharityDonate : num [1:4126] 180 80 300 100 4200 3500 400 350 50 100
105 ## $ Your.Personal.Relationships: num [1:4126] 7 6 2 2 8 8 10 10 9 9 ...

```

```

106 ## $ Your.Future.Security      : num [1:4126] 8 10 8 6 8 7 8 7 9 9 ...
107 ## $ Standard.Living            : num [1:4126] 7 8 8 6 8 8 10 10 9 9 ...
108 ## $ NZ.Economic.Situation      : num [1:4126] 7 4 2 6 5 6 7 5 7 8 ...
109 ## $ NZ.Social.Conditions       : num [1:4126] 7 7 2 6 5 5 2 0 9 7 ...
110 ## $ NZ.Business.Conditions     : num [1:4126] 7 8 2 6 5 5 6 5 9 7 ...
111 ## $ Emp.JobSecure              : num [1:4126] 7 NA 6 6 5 4 6 NA NA NA ...
112 ## $ Issue.Food.GMO             : num [1:4126] 1 2 5 5 4 4 7 7 1 4 ...
113 ## $ Env.SacMade                : logi [1:4126] NA NA NA NA NA NA ...
114 ## $ KESSLER6sum                : num [1:4126] 5 3 7 7 3 3 0 4 NA 2 ...
115 ## $ FeelHopeless               : Factor w/ 5 levels "None Of The Time",...: 1 1 2 1 1 1
116 ## $ FeelDepressed              : Factor w/ 5 levels "None Of The Time",...: 1 1 1 1 1 1
117 ## $ FeelRestless               : Factor w/ 5 levels "None Of The Time",...: 3 2 4 4 2 2
118 ## $ EverythingIsEffort         : Factor w/ 5 levels "None Of The Time",...: 2 2 2 3 2 2
119 ## $ FeelWorthless              : Factor w/ 5 levels "None Of The Time",...: 1 1 1 1 1 1
120 ## $ FeelNervous                : Factor w/ 5 levels "None Of The Time",...: 3 2 3 3 2 2
121 ## $ date                       : Date[1:4126], format: "2020-02-02" "2019-02-18" ...
122 ## $ Hours.Internet_int         : int [1:4126] 10 5 14 15 2 2 4 4 10 14 ...
123 ## $ Hours.Exercise_int         : int [1:4126] 14 24 7 10 5 6 1 0 1 7 ...
124 ## $ Hours.Work_int             : int [1:4126] 14 0 35 65 60 50 41 42 0 0 ...
125 ## $ Hours.News_int             : int [1:4126] 4 4 5 4 1 2 0 0 8 7 ...
126 ## $ HoursCharity_int          : int [1:4126] 2 0 0 2 0 0 0 4 0 0 ...

127      Question 2a ## Scale, Center, Transform

128 ## # A tibble: 6 x 5
129 ##   Pol.Orient   Age Pol.Orient1[,1] Pol.Orient2[,1] Age1[,1]
130 ##   <dbl> <dbl>         <dbl>         <dbl>     <dbl>
131 ## 1         3    47         -0.420         -0.582     -0.357

```

```

132 ## 2          3    46          -0.420          -0.582    -0.457
133 ## 3          5    47           1.02           1.42    -0.357
134 ## 4          3    46          -0.420          -0.582    -0.457
135 ## 5          4    53           0.301           0.418     0.243
136 ## 6          4    52           0.301           0.418     0.143

```

```

137      Question 2b ## Data Wrangle

```

```

138 ##          V1
139 ## Min.      :-0.70917
140 ## 1st Qu.   :-0.46046
141 ## Median   :-0.21175
142 ## Mean      :-0.00897
143 ## 3rd Qu.   : 0.16131
144 ## Max.      : 9.23926
145 ## NA's      :57

```

```

146 ## 2018 2019

```

```

147 ## 2063    0

```

```

148 ## # A tibble: 2,063 x 3

```

```

149 ##      Hours.Exercise Wave  Hours.Exercise44[,1]

```

```

150 ##                <dbl> <fct>                <dbl>

```

```

151 ## 1                24   2018                2.28

```

```

152 ## 2                10   2018                0.534

```

```

153 ## 3                 6   2018                0.0370

```

```

154 ## 4                 0   2018               -0.709

```

```

155 ## 5                 7   2018                0.161

```

```

156 ## 6          1  2018          -0.585
157 ## 7          1  2018          -0.585
158 ## 8          3  2018          -0.336
159 ## 9          8  2018           0.286
160 ## 10         5.5 2018         -0.0252
161 ## # ... with 2,053 more rows

```

```

162      Question 3 ## Working with dates

```

```

163 ## # A tibble: 607 x 3
164 ##   day          n Year
165 ##   <date>      <int> <fct>
166 ## 1 2018-06-21   112 2018
167 ## 2 2018-06-22    93 2018
168 ## 3 2018-06-24    80 2018
169 ## 4 2018-06-20    67 2018
170 ## 5 2018-06-23    59 2018
171 ## 6 2018-06-26    58 2018
172 ## 7 2019-12-03    54 2019
173 ## 8 2018-06-25    52 2018
174 ## 9 2019-10-04    47 2019
175 ## 10 2019-12-02    46 2019
176 ## # ... with 597 more rows

```

```

177      Maximum for 2019: 54 Maximum for 2018: 112 based from the above summary and
178      pulling the relevant dates out from it.

```

```

179      Question 4 ## Calculating dates and creating summaries

```



How many days are there between the date with the highest number of responses and the date with the second highest number of responses? Pulling the relevant data from the above summary: the answer is 1 day between these dates.

*Bonus:* Calculate difference between the number of responses on the highest response date and second highest response date? See below:

```
## [1] 19
```

Question 5 ## Working with date intervals

```
## [1] 302.8338
```

Question 6 ## Create an ordered factor from numerical data

```
##
```

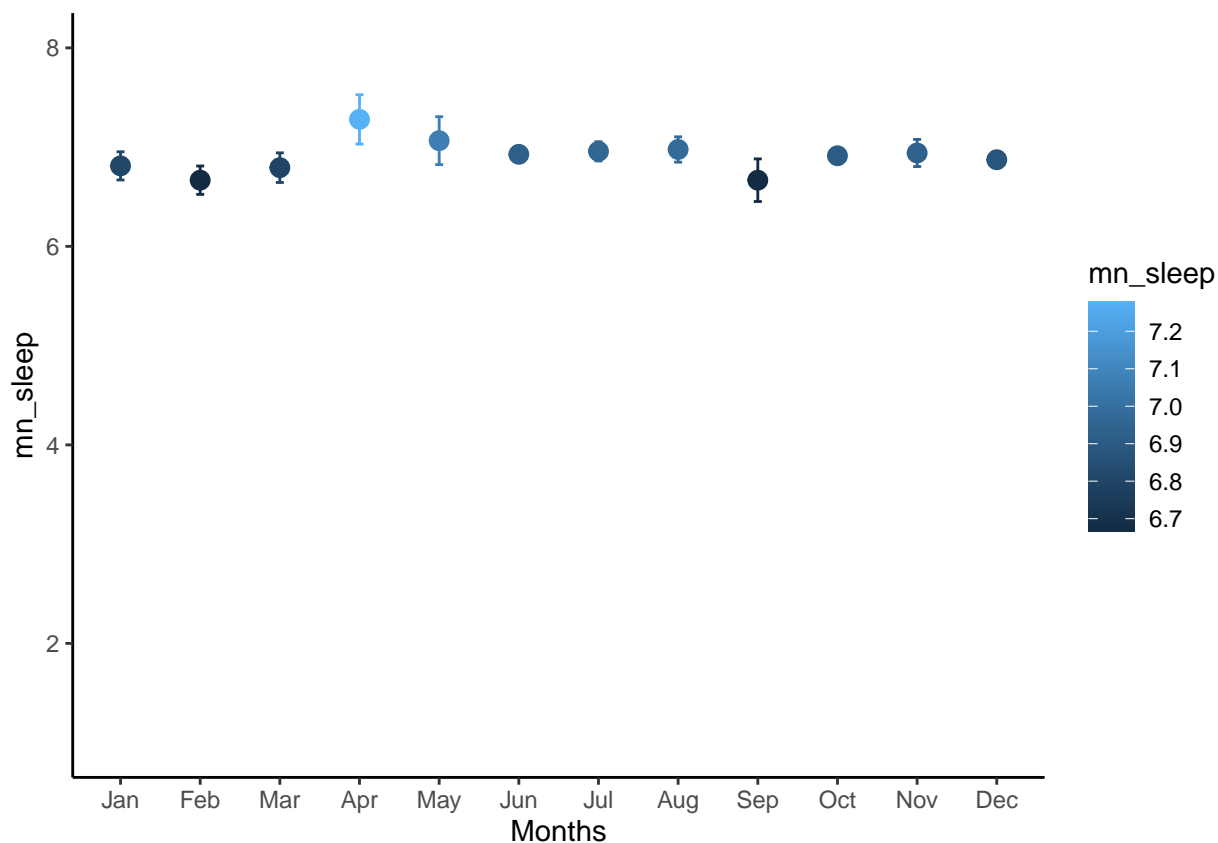
```
##      Non-attendance Moderate attendance Frequent attendance      <NA>
```

```
##      3366              493              158              109
```

\*Make sure to re-level the factor so that the ordinal ranking moves from lowest to highest - because the factors are already leveled correctly, no re-leveling is required - re-leveling could otherwise be done with the re-level function

Question 7a ## Make a summary table

Question 7b ## Make a summary graph



Comment:

Let me have a think!

Briefly explain why some intervals are wider than others.

Question 8 ## Correlation graph

## Parameter	FeelNervous	FeelWorthless	EverythingIsEffort	FeelRestless
## -----				
## FeelHopeless	-0.29***	0.02	-0.22***	-0.33***
## FeelDepressed	-0.26***	-6.78e-03	-0.17***	-0.30***
## FeelRestless	-0.14***	-0.29***	-0.22***	
## EverythingIsEffort	-0.30***	-0.21***		
## FeelWorthless	-0.21***			
## # Correlation Matrix (pearson-method)				



## References

- Aust, F., & Barth, M. (2020). *papaja: Prepare reproducible APA journal articles with R Markdown*. Retrieved from <https://github.com/crsh/papaja>
- Barth, M. (2021). *tinylabels: Lightweight variable labels*. Retrieved from <https://github.com/mariusbarth/tinylabels>
- R Core Team. (2021). *R: A language and environment for statistical computing*. Vienna, Austria: R Foundation for Statistical Computing. Retrieved from <https://www.R-project.org/>

Table 1

*Average Number of Hours of Sleep by Month*

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
6.810909	6.666667	6.792891	7.279487	7.064935	5.927352	6.957453	6.976087	6.666667	6.912846	6.940741	6.872973