

Data Management

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0.1 Introduction

Goal:

- Create an organized dataset that focuses on my variables of interests.
- Create additional variables that I will need to analyze.

Dataset: International Multi-Centre Study of Statistics and Mathematics Anxieties and Related Variables in University Students (the SMARVUS Dataset)

Source: “This large, international dataset contains survey responses from $N = 12,570$ students from 100 universities in 35 countries, collected in 21 languages. We measured anxieties (statistics, mathematics, test, trait, social interaction, performance, creativity, intolerance of uncertainty, and fear of negative evaluation), self-efficacy, persistence, and the cognitive reflection test, and collected demographics, previous mathematics grades, self-reported and official statistics grades, and statistics module details. Data reuse potential is broad, including testing links between anxieties and statistics/mathematics education factors, and examining instruments’ psychometric properties across different languages and contexts.” (<https://osf.io/mhg94/>)

Variables of Interest:

- ‘Var1’: [Variable description]

- 'Var2': [Variable description]

Goals:

- Focus dataset to English speakers and Psychology Majors.
- Create total scores uhn

```
-- Attaching core tidyverse packages ----- tidyverse 2.0.0 --
v dplyr      1.1.4      v readr      2.1.5
v forcats    1.0.0      v stringr    1.5.1
v ggplot2    3.5.1      v tibble     3.2.1
v lubridate  1.9.4      v tidyr      1.3.1
v purrr      1.0.4
-- Conflicts ----- tidyverse_conflicts() --
x dplyr::filter() masks stats::filter()
x dplyr::lag()     masks stats::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become
```

```
source("loadData.R")
```

```
[1] "Data successfully loaded."
```

```
head(df)
```

```
# A tibble: 6 x 788
  unique_id survey_id country language incentive participation_context progress
  <chr>      <chr>      <chr>    <chr>      <chr>      <chr>      <dbl>
1 01057178  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      100
2 0300b5f2  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      100
3 03f6503b  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      100
4 0601d699  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time       78
5 08b6cb02  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      100
6 0903d70d  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      100
# i 781 more variables: duration <dbl>, start_date <chr>, end_date <chr>,
#   university <chr>, eligibility_ug <chr>, eligibility_stats <chr>,
#   degree_major <chr>, degree_minor <chr>, degree_level_maths <chr>,
#   degree_level_maths_specify <chr>, degree_year <chr>, age <chr>,
#   gender <chr>, spld <chr>, attention_amnesty <chr>, Q7.1_1 <dbl>,
#   Q7.1_2 <dbl>, Q7.1_3 <dbl>, Q7.1_4 <dbl>, Q7.1_5 <dbl>, Q7.1_6 <dbl>,
#   Q7.1_7 <dbl>, Q7.1_8 <dbl>, Q7.1_9 <dbl>, Q7.1_10 <dbl>, Q7.1_11 <dbl>, ...
```

```
# Define the file path
# Load the CSV file
#df <- file.path("../", "data", "data.csv") %>%
# read_csv()

# View the first few rows
#head(df)
```

0.2 Examine data

```
# Review the structure of the data
str(df)
```

```
spc_tbl_ [12,570 x 788] (S3: spec_tbl_df/tbl_df/tbl/data.frame)
 $ unique_id                : chr [1:12570] "01057178" "0300b5f2" "03f6503b" ...
 $ survey_id                : chr [1:12570] "airlangga" "airlangga" "airlangga" ...
 $ country                  : chr [1:12570] "Indonesia" "Indonesia" "Indonesia" ...
 $ language                 : chr [1:12570] "Bahasa Indonesia" "Bahasa Indonesia" ...
 $ incentive                : chr [1:12570] "Prize Draw" "Prize Draw" "Prize Draw" ...
 $ participation_context    : chr [1:12570] "Remotely, in own time" "Remotely, in own time" ...
 $ progress                 : num [1:12570] 100 100 100 78 100 100 100 100 100 ...
 $ duration                 : num [1:12570] 5829 2084 5667 2155 3342 ...
 $ start_date               : chr [1:12570] "7/4/2021" "1/4/2021" "7/4/2021" ...
 $ end_date                 : chr [1:12570] "7/4/2021" "1/4/2021" "8/4/2021" ...
 $ university               : chr [1:12570] "Airlangga University" "Airlangga University" ...
 $ eligibility_ug           : chr [1:12570] "Yes" "Yes" "Yes" "Yes" ...
 $ eligibility_stats        : chr [1:12570] "Yes" "Yes" "Yes" "Yes" ...
 $ degree_major             : chr [1:12570] "Psychology" "Psychology" "Psychology" ...
 $ degree_minor             : chr [1:12570] NA NA NA NA ...
 $ degree_level_maths       : chr [1:12570] "No" "No" "Yes (please specify)" ...
 $ degree_level_maths_specify : chr [1:12570] NA NA "Statistics" NA ...
 $ degree_year              : chr [1:12570] "3rd Year" "4th Year" "4th Year" ...
 $ age                      : chr [1:12570] "18-21" "18-21" "22-25" NA ...
 $ gender                   : chr [1:12570] "Male/Man" "Female/Woman" "Female/Woman" ...
 $ spld                     : chr [1:12570] "I do not have an SpLD" "I do not have an SpLD" ...
 $ attention_amnesty        : chr [1:12570] "Yes" "Yes" "Yes" NA ...
 $ Q7.1_1                   : num [1:12570] 3 3 4 4 5 1 1 3 4 4 ...
 $ Q7.1_2                   : num [1:12570] 5 4 4 4 4 1 2 1 4 3 ...
 $ Q7.1_3                   : num [1:12570] 3 1 3 4 5 2 2 1 5 2 ...
 $ Q7.1_4                   : num [1:12570] 4 5 4 5 5 2 3 3 3 3 ...
```

| | | |
|------------|-----------------|-------------------------|
| \$ Q7.1_5 | : num [1:12570] | 4 5 4 4 4 1 1 2 4 2 ... |
| \$ Q7.1_6 | : num [1:12570] | 4 4 3 2 4 1 1 2 1 3 ... |
| \$ Q7.1_7 | : num [1:12570] | 5 4 4 4 5 3 1 5 5 4 ... |
| \$ Q7.1_8 | : num [1:12570] | 5 2 5 5 5 3 4 4 3 4 ... |
| \$ Q7.1_9 | : num [1:12570] | 2 1 1 1 1 1 1 1 1 4 ... |
| \$ Q7.1_10 | : num [1:12570] | 4 3 4 4 5 2 1 2 2 4 ... |
| \$ Q7.1_11 | : num [1:12570] | 4 4 4 4 4 1 1 1 5 4 ... |
| \$ Q7.1_12 | : num [1:12570] | 2 1 1 2 4 1 4 1 4 3 ... |
| \$ Q7.1_13 | : num [1:12570] | 4 2 5 3 5 2 1 2 4 4 ... |
| \$ Q7.1_14 | : num [1:12570] | 4 5 4 2 5 2 1 4 2 5 ... |
| \$ Q7.1_15 | : num [1:12570] | 3 3 3 4 5 2 2 1 3 2 ... |
| \$ Q7.1_16 | : num [1:12570] | 2 4 2 4 5 1 2 2 5 3 ... |
| \$ Q7.1_17 | : num [1:12570] | 2 2 2 2 4 1 1 1 3 5 ... |
| \$ Q7.1_18 | : num [1:12570] | 4 1 5 2 5 1 1 3 4 2 ... |
| \$ Q7.1_19 | : num [1:12570] | 4 3 2 2 5 1 1 1 4 1 ... |
| \$ Q7.1_20 | : num [1:12570] | 5 4 4 4 4 1 1 3 4 2 ... |
| \$ Q7.1_21 | : num [1:12570] | 2 3 3 4 4 1 1 4 1 3 ... |
| \$ Q7.1_22 | : num [1:12570] | 5 4 4 5 4 1 1 2 4 3 ... |
| \$ Q7.1_23 | : num [1:12570] | 4 4 2 1 5 1 1 2 4 1 ... |
| \$ Q7.1_24 | : num [1:12570] | 1 1 1 1 1 1 1 1 1 1 ... |
| \$ Q7.2_1 | : num [1:12570] | 3 4 3 4 5 1 1 2 1 5 ... |
| \$ Q7.2_2 | : num [1:12570] | 4 5 5 4 4 3 4 3 4 4 ... |
| \$ Q7.2_3 | : num [1:12570] | 4 4 4 4 4 3 4 4 3 5 ... |
| \$ Q7.2_4 | : num [1:12570] | 4 4 5 5 5 3 4 4 4 5 ... |
| \$ Q7.2_5 | : num [1:12570] | 4 3 5 5 5 2 2 3 2 5 ... |
| \$ Q7.2_6 | : num [1:12570] | 4 4 5 4 5 2 2 4 2 4 ... |
| \$ Q7.2_7 | : num [1:12570] | 4 4 5 4 5 2 2 4 3 5 ... |
| \$ Q7.2_8 | : num [1:12570] | 3 4 4 5 4 1 1 4 3 3 ... |
| \$ Q7.2_9 | : num [1:12570] | 5 4 4 5 5 2 1 4 3 5 ... |
| \$ Q7.2_10 | : num [1:12570] | 5 5 5 5 5 4 5 4 5 4 ... |
| \$ Q7.2_11 | : num [1:12570] | 2 4 5 2 4 1 4 4 3 4 ... |
| \$ Q7.2_12 | : num [1:12570] | 2 4 5 3 4 1 4 3 3 3 ... |
| \$ Q7.2_13 | : num [1:12570] | 2 3 5 4 1 1 4 4 4 4 ... |
| \$ Q7.2_14 | : num [1:12570] | 2 4 4 4 4 1 4 4 3 3 ... |
| \$ Q7.2_15 | : num [1:12570] | 2 3 3 1 1 1 1 1 1 1 ... |
| \$ Q7.2_16 | : num [1:12570] | 4 4 3 2 4 1 1 2 3 3 ... |
| \$ Q7.2_17 | : num [1:12570] | 3 3 5 1 4 1 1 4 1 3 ... |
| \$ Q7.2_18 | : num [1:12570] | 3 3 5 2 5 1 2 1 2 2 ... |
| \$ Q7.2_19 | : num [1:12570] | 2 2 3 1 4 1 1 2 1 1 ... |
| \$ Q7.2_20 | : num [1:12570] | 2 4 4 2 1 2 4 2 1 4 ... |
| \$ Q7.2_21 | : num [1:12570] | 2 5 5 3 4 2 2 2 2 4 ... |
| \$ Q7.2_22 | : num [1:12570] | 2 4 5 2 2 2 4 1 1 3 ... |
| \$ Q7.2_23 | : num [1:12570] | 2 3 5 3 5 2 4 4 3 4 ... |

```

$ Q8.1_1      : num [1:12570] 1 4 3 5 5 1 1 2 2 4 ...
$ Q8.1_2      : num [1:12570] 2 3 5 5 4 1 4 1 4 1 ...
$ Q8.1_3      : num [1:12570] 1 3 1 4 5 1 1 1 5 1 ...
$ Q8.1_4      : num [1:12570] 1 4 4 4 5 1 2 1 1 3 ...
$ Q8.1_5      : num [1:12570] 2 4 3 4 4 1 1 2 4 2 ...
$ Q8.1_6      : num [1:12570] 2 4 4 2 4 1 1 3 4 2 ...
$ Q8.1_7      : num [1:12570] 2 4 4 2 5 2 4 2 3 3 ...
$ Q8.1_8      : num [1:12570] 2 4 4 5 5 3 2 3 4 5 ...
$ Q8.1_9      : num [1:12570] 2 3 3 5 4 3 1 4 3 3 ...
$ Q8.1_10     : num [1:12570] 1 3 4 1 1 1 4 1 1 1 ...
$ Q8.1_11     : num [1:12570] 3 3 5 2 5 2 2 2 4 4 ...
$ Q8.1_12     : num [1:12570] 3 4 3 4 4 2 4 4 4 2 ...
$ Q8.1_13     : num [1:12570] 2 4 3 4 5 2 1 1 3 5 ...
$ Q8.1_14     : num [1:12570] 1 3 2 4 5 1 1 1 5 1 ...
$ Q8.1_15     : num [1:12570] 3 3 5 4 5 1 1 3 1 3 ...
$ Q8.1_16     : num [1:12570] 2 3 2 2 5 1 1 1 2 1 ...
$ Q8.1_17     : num [1:12570] 2 3 2 2 4 1 1 1 1 2 ...
$ Q8.1_18     : num [1:12570] 2 2 3 2 5 1 1 2 2 1 ...
$ Q8.1_19     : num [1:12570] 2 3 4 1 4 1 1 2 3 3 ...
$ Q8.1_20     : num [1:12570] 1 3 1 1 5 1 1 2 4 1 ...
$ Q8.1_21     : num [1:12570] 5 5 5 5 5 5 5 5 5 5 ...
$ Q8.2_1      : num [1:12570] 2 4 3 4 5 1 2 3 1 3 ...
$ Q8.2_2      : num [1:12570] 4 4 4 5 5 3 4 3 4 5 ...
$ Q8.2_3      : num [1:12570] 2 5 4 4 5 3 4 4 3 4 ...
$ Q8.2_4      : num [1:12570] 3 4 4 5 5 3 4 5 4 4 ...
$ Q8.2_5      : num [1:12570] 2 3 3 4 5 2 2 1 2 3 ...
$ Q8.2_6      : num [1:12570] 2 3 4 4 5 2 2 2 2 4 ...
$ Q8.2_7      : num [1:12570] 3 4 5 4 5 3 2 2 2 4 ...
$ Q8.2_8      : num [1:12570] 2 2 5 4 5 1 4 4 2 3 ...
$ Q8.2_9      : num [1:12570] 4 3 5 4 5 2 1 3 4 5 ...

[list output truncated]
- attr(*, "spec")=
.. cols(
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..   survey_id = col_character(),
..   country = col_character(),
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..   participation_context = col_character(),
..   progress = col_double(),
..   duration = col_double(),
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.. eligibility_ug = col_character(),
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.. crt_check2 = col_character(),
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.. do_block_big = col_double(),
.. do_q_crt_1 = col_double(),
.. do_q_crt_2 = col_double(),
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.. math_edu_mths = col_character(),
.. math_edu_level = col_character(),
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.. math_edu_grade_yr11_entry = col_character(),
.. math_edu_grade_yr11_int = col_character(),
.. math_edu_grade_yr11_adv = col_character(),
.. math_edu_grade_other = col_character(),
.. math_edu_mths_yr10 = col_character(),
.. math_edu_mths_yr11_entry = col_character(),
.. math_edu_mths_yr11_int = col_character(),
.. math_edu_mths_yr11_adv = col_character(),
.. math_edu_mths_other = col_character(),
.. math_edu_primary_level = col_character(),
.. math_edu_grade_grade10 = col_character(),

```

```

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.. math_edu_mths_grade11 = col_character(),
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.. scale_cwk_multi10_no_specify = col_character(),
.. tasks_other1 = col_character(),
.. date_other1 = col_character(),
.. scale_other1 = col_character(),
.. scale_other1_yes_specify = col_character(),
.. scale_other1_no_specify = col_character(),
.. info_other1 = col_character(),
.. tasks_other2 = col_character(),
.. date_other2 = col_character(),
.. scale_other2 = col_character(),
.. scale_other2_yes_specify = col_character(),
.. scale_other2_no_specify = col_logical(),
.. info_other2 = col_character(),
.. tasks_other3 = col_character(),
.. date_other3 = col_character(),
.. scale_other3 = col_character(),
.. scale_other3_yes_specify = col_character(),
.. scale_other3_no_specify = col_character(),
.. summative_instructor_written = col_character(),
.. summative_instructor_verbal = col_character(),
.. summative_instructor_grade = col_character(),
.. summative_peer_written = col_logical(),
.. summative_peer_verbal = col_character(),
.. summative_peer_grade = col_character(),
.. summative_none = col_character(),
.. additional_info = col_character(),
.. grade_module_name = col_character(),

```

```

..   grade = col_character(),
..   grade_low = col_character(),
..   grade_high = col_character(),
..   grade_category_notes = col_character()
.. )
- attr(*, "problems")=<externalptr>

```

```

# Summary statistics
summary(df)

```

| unique_id | survey_id | country | language |
|------------------|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| incentive | participation_context | progress | duration |
|------------------|-----------------------|----------------|---------------|
| Length:12570 | Length:12570 | Min. : 14.00 | Min. : 61 |
| Class :character | Class :character | 1st Qu.: 98.00 | 1st Qu.: 1282 |
| Mode :character | Mode :character | Median :100.00 | Median : 1802 |
| | | Mean : 90.15 | Mean : 8816 |
| | | 3rd Qu.:100.00 | 3rd Qu.: 2651 |
| | | Max. :100.00 | Max. :4141988 |

| start_date | end_date | university | eligibility_ug |
|------------------|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| eligibility_stats | degree_major | degree_minor | degree_level_maths |
|-------------------|------------------|------------------|--------------------|
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|----------------------------|------------------|------------------|
| degree_level_maths_specify | degree_year | age |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | | |
|------------------|------------------|-------------------|---------------|
| gender | spld | attention_amnesty | Q7.1_1 |
| Length:12570 | Length:12570 | Length:12570 | Min. :1.000 |
| Class :character | Class :character | Class :character | 1st Qu.:2.000 |
| Mode :character | Mode :character | Mode :character | Median :3.000 |
| | | | Mean :3.229 |
| | | | 3rd Qu.:4.000 |
| | | | Max. :5.000 |
| | | | NA's :457 |

| | | | |
|---------------|---------------|---------------|---------------|
| Q7.1_2 | Q7.1_3 | Q7.1_4 | Q7.1_5 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :2.696 | Mean :2.817 | Mean :2.858 | Mean :2.687 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :458 | NA's :453 | NA's :451 | NA's :457 |

| | | | | |
|---------------|---------------|---------------|--------------|---------------|
| Q7.1_6 | Q7.1_7 | Q7.1_8 | Q7.1_9 | Q7.1_10 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:1.00 | 1st Qu.:3.000 |
| Median :2.000 | Median :3.000 | Median :4.000 | Median :2.00 | Median :4.000 |
| Mean :2.424 | Mean :3.167 | Mean :3.841 | Mean :2.03 | Mean :3.647 |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:3.00 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :467 | NA's :461 | NA's :454 | NA's :457 | NA's :459 |

| | | | |
|---------------|---------------|---------------|---------------|
| Q7.1_11 | Q7.1_12 | Q7.1_13 | Q7.1_14 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.000 | Median :3.000 | Median :3.000 |
| Mean :2.698 | Mean :2.583 | Mean :3.374 | Mean :2.654 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :461 | NA's :454 | NA's :462 | NA's :459 |

| | | | |
|---------------|---------------|---------------|---------------|
| Q7.1_15 | Q7.1_16 | Q7.1_17 | Q7.1_18 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:1.000 |

| | | | |
|---------------|---------------|---------------|---------------|
| Median :4.000 | Median :3.000 | Median :2.000 | Median :2.000 |
| Mean :3.607 | Mean :2.711 | Mean :2.362 | Mean :2.461 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :452 | NA's :463 | NA's :457 | NA's :460 |
| Q7.1_19 | Q7.1_20 | Q7.1_21 | Q7.1_22 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 |
| Median :2.000 | Median :3.000 | Median :2.000 | Median :3.000 |
| Mean :2.612 | Mean :2.735 | Mean :2.576 | Mean :3.048 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :453 | NA's :458 | NA's :458 | NA's :463 |
| Q7.1_23 | Q7.1_24 | Q7.2_1 | Q7.2_2 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:3.000 |
| Median :2.000 | Median :1.000 | Median :3.000 | Median :4.000 |
| Mean :2.314 | Mean :1.161 | Mean :3.162 | Mean :3.657 |
| 3rd Qu.:3.000 | 3rd Qu.:1.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :460 | NA's :1306 | NA's :460 | NA's :453 |
| Q7.2_3 | Q7.2_4 | Q7.2_5 | Q7.2_6 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:3.000 |
| Median :4.000 | Median :4.000 | Median :3.000 | Median :4.000 |
| Mean :3.577 | Mean :4.025 | Mean :3.167 | Mean :3.687 |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :462 | NA's :457 | NA's :462 | NA's :457 |
| Q7.2_7 | Q7.2_8 | Q7.2_9 | Q7.2_10 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:4.000 |
| Median :4.000 | Median :3.000 | Median :4.000 | Median :5.000 |
| Mean :3.901 | Mean :3.099 | Mean :3.791 | Mean :4.141 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :462 | NA's :466 | NA's :455 | NA's :451 |
| Q7.2_11 | Q7.2_12 | Q7.2_13 | Q7.2_14 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :3.003 | Mean :2.879 | Mean :2.825 | Mean :2.912 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |

| | | | | |
|---------------|---------------|---------------|---------------|---------|
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :463 | NA's :460 | NA's :466 | NA's :459 | |
| Q7.2_15 | Q7.2_16 | Q7.2_17 | Q7.2_18 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :1.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :1.846 | Mean :2.406 | Mean :2.592 | Mean :2.432 | |
| 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :460 | NA's :457 | NA's :467 | NA's :461 | |
| Q7.2_19 | Q7.2_20 | Q7.2_21 | Q7.2_22 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.447 | Mean :2.397 | Mean :2.575 | Mean :2.437 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :462 | NA's :551 | NA's :556 | NA's :558 | |
| Q7.2_23 | Q8.1_1 | Q8.1_2 | Q8.1_3 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.703 | Mean :3.213 | Mean :2.628 | Mean :2.777 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :555 | NA's :451 | NA's :442 | NA's :440 | |
| Q8.1_4 | Q8.1_5 | Q8.1_6 | Q8.1_7 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 | |
| Mean :2.741 | Mean :2.619 | Mean :2.474 | Mean :2.862 | |
| 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :444 | NA's :448 | NA's :447 | NA's :442 | |
| Q8.1_8 | Q8.1_9 | Q8.1_10 | Q8.1_11 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :4.000 | Median :4.000 | Median :1.000 | Median :3.000 | |
| Mean :3.762 | Mean :3.622 | Mean :1.947 | Mean :3.366 | |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :441 | NA's :447 | NA's :443 | NA's :440 | |
| Q8.1_12 | Q8.1_13 | Q8.1_14 | Q8.1_15 | Q8.1_16 |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:2.000 |
| Median :3.000 | Median :4.000 | Median :3.000 | Median :2.00 | Median :2.000 |
| Mean :2.837 | Mean :3.601 | Mean :2.692 | Mean :2.45 | Mean :2.618 |
| 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:3.00 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :446 | NA's :441 | NA's :447 | NA's :441 | NA's :452 |
| Q8.1_17 | Q8.1_18 | Q8.1_19 | Q8.1_20 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :3.000 | Median :2.000 | |
| Mean :2.602 | Mean :2.612 | Mean :3.019 | Mean :2.301 | |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :443 | NA's :447 | NA's :439 | NA's :449 | |
| Q8.1_21 | Q8.2_1 | Q8.2_2 | Q8.2_3 | Q8.2_4 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:5.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:3.00 | 1st Qu.:3.000 |
| Median :5.000 | Median :3.000 | Median :4.000 | Median :4.00 | Median :4.000 |
| Mean :4.788 | Mean :3.067 | Mean :3.659 | Mean :3.51 | Mean :3.971 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.00 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :1282 | NA's :446 | NA's :444 | NA's :456 | NA's :455 |
| Q8.2_5 | Q8.2_6 | Q8.2_7 | Q8.2_8 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :4.000 | Median :4.000 | Median :3.000 | |
| Mean :3.084 | Mean :3.622 | Mean :3.836 | Mean :3.099 | |
| 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :450 | NA's :457 | NA's :447 | NA's :444 | |
| Q8.2_9 | Q8.2_10 | Q8.2_11 | Q8.2_12 | Q8.2_13 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 |
| Median :4.000 | Median :4.000 | Median :1.000 | Median :2.00 | Median :2.000 |
| Mean :3.717 | Mean :4.029 | Mean :1.602 | Mean :2.15 | Mean :1.977 |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:2.000 | 3rd Qu.:3.00 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :453 | NA's :459 | NA's :444 | NA's :446 | NA's :451 |
| Q8.2_14 | Q8.2_15 | Q8.2_16 | Q8.2_17 | Q8.2_18 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :1.000 | Median :2.00 | Median :2.000 |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| Mean :2.191 | Mean :2.368 | Mean :1.783 | Mean :2.36 | Mean :2.603 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3.00 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :444 | NA's :455 | NA's :458 | NA's :446 | NA's :457 |
| Q8.2_19 | Q8.2_20 | Q8.2_21 | Q8.2_22 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :2.000 | Median :3.000 | Median :3.000 | |
| Mean :2.351 | Mean :2.382 | Mean :3.152 | Mean :3.181 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:5.000 | 3rd Qu.:5.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :449 | NA's :459 | NA's :548 | NA's :543 | |
| Q8.2_23 | Q8.2_24 | Q9.1_1 | Q9.1_2 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :3.000 | Median :3.000 | Median :2.000 | Median :2.000 | |
| Mean :3.212 | Mean :3.223 | Mean :2.206 | Mean :2.111 | |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :4.000 | Max. :4.000 | |
| NA's :556 | NA's :549 | NA's :1515 | NA's :1511 | |
| Q9.1_3 | Q9.1_4 | Q9.1_5 | Q9.1_6 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.393 | Mean :2.353 | Mean :2.296 | Mean :1.855 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1512 | NA's :1514 | NA's :1512 | NA's :1514 | |
| Q9.1_7 | Q9.1_8 | Q9.1_9 | Q9.1_10 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :3.000 | |
| Mean :1.907 | Mean :1.943 | Mean :2.346 | Mean :2.724 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1511 | NA's :1517 | NA's :1513 | NA's :1513 | |
| Q9.1_11 | Q9.1_12 | Q9.1_13 | Q9.1_14 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.285 | Mean :2.016 | Mean :2.238 | Mean :1.799 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| NA's :1519 | NA's :1513 | NA's :1510 | NA's :1518 | |
| Q9.1_15 | Q9.1_16 | Q9.1_17 | Q9.1_18 | Q9.1_19 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:2.00 | 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:2.000 |
| Median :2.000 | Median :2.00 | Median :2.000 | Median :2.00 | Median :3.000 |
| Mean :1.894 | Mean :2.47 | Mean :2.451 | Mean :1.84 | Mean :2.509 |
| 3rd Qu.:2.000 | 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:2.00 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.00 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1509 | NA's :1510 | NA's :1514 | NA's :1511 | NA's :1515 |
| Q9.1_20 | Q9.1_21 | Q9.1_22 | Q10.1_1 | Q10.1_2 |
| Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :1.00 | Median :2.000 | Median :2.000 |
| Mean :2.196 | Mean :1.981 | Mean :1.08 | Mean :2.312 | Mean :2.237 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:1.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 | Max. :4.000 |
| NA's :1514 | NA's :1515 | NA's :2328 | NA's :1495 | NA's :1502 |
| Q10.1_3 | Q10.1_4 | Q10.1_5 | Q10.1_6 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.422 | Mean :2.735 | Mean :2.702 | Mean :3.054 | |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1496 | NA's :1496 | NA's :1496 | NA's :1495 | |
| Q10.1_7 | Q10.1_8 | Q10.1_9 | Q10.1_10 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.159 | Mean :2.135 | Mean :1.927 | Mean :1.934 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1494 | NA's :1495 | NA's :1496 | NA's :1494 | |
| Q10.1_11 | Q10.1_12 | Q10.1_13 | Q10.1_14 | Q10.1_15 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.00 |
| Median :2.000 | Median :3.000 | Median :3.000 | Median :2.000 | Median :2.00 |
| Mean :2.549 | Mean :2.919 | Mean :2.969 | Mean :2.394 | Mean :2.11 |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.00 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 |
| NA's :1495 | NA's :1501 | NA's :1496 | NA's :1491 | NA's :1493 |
| Q10.1_16 | Q10.1_17 | Q10.1_18 | Q10.1_19 | Q10.1_20 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.00 | Median :1.000 |
| Mean :2.065 | Mean :2.027 | Mean :2.112 | Mean :1.89 | Mean :1.821 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.00 | 3rd Qu.:2.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1499 | NA's :1503 | NA's :1497 | NA's :1495 | NA's :1498 |
| Q10.1_21 | Q10.1_22 | Q10.1_23 | Q10.1_24 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :1.000 | Median :2.000 | Median :2.000 | |
| Mean :2.148 | Mean :1.602 | Mean :2.203 | Mean :2.402 | |
| 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1498 | NA's :1495 | NA's :1495 | NA's :1497 | |
| Q10.1_25 | Q11.1_1 | Q11.1_2 | Q11.1_3 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.899 | Mean :3.047 | Mean :2.952 | Mean :2.951 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1498 | NA's :1470 | NA's :1476 | NA's :1475 | |
| Q11.1_4 | Q11.1_5 | Q11.1_6 | Q11.1_7 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.952 | Mean :3.058 | Mean :3.241 | Mean :3.213 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1477 | NA's :1476 | NA's :1476 | NA's :1472 | |
| Q11.1_8 | Q11.1_9 | Q12.1_1 | Q12.1_2 | Q12.1_3 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:1.000 | 1st Qu.:1 | 1st Qu.:1.000 |
| Median :3.000 | Median :3.000 | Median :1.000 | Median :2 | Median :1.000 |
| Mean :3.262 | Mean :2.977 | Mean :1.763 | Mean :2 | Mean :1.756 |
| 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3 | 3rd Qu.:2.000 |
| Max. :5.000 | Max. :5.000 | Max. :4.000 | Max. :4 | Max. :4.000 |
| NA's :1475 | NA's :2284 | NA's :1494 | NA's :1496 | NA's :1496 |
| Q12.1_4 | Q12.1_5 | Q12.1_6 | Q12.1_7 | Q12.1_8 |
| Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.00 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 |
| Median :1.00 | Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 |
| Mean :1.71 | Mean :2.547 | Mean :3.006 | Mean :2.078 | Mean :2.661 |

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|---------------|---------------|---------------|---------------|---------------|
| 3rd Qu.:2.00 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :4.00 | Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 |
| NA's :1501 | NA's :1493 | NA's :1495 | NA's :1497 | NA's :1494 |
| Q12.1_9 | Q12.1_10 | Q12.1_11 | Q12.1_12 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :2.000 | Median :2.000 | |
| Mean :2.399 | Mean :2.522 | Mean :2.229 | Mean :2.305 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1495 | NA's :1492 | NA's :1495 | NA's :1497 | |
| Q12.1_13 | Q12.1_14 | Q12.1_15 | Q12.1_16 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :2.000 | Median :3.000 | Median :3.000 | |
| Mean :1.837 | Mean :2.472 | Mean :2.676 | Mean :2.807 | |
| 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1492 | NA's :1493 | NA's :1494 | NA's :1495 | |
| Q12.1_17 | Q12.1_18 | Q12.1_19 | Q12.1_20 | Q12.1_21 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.00 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.000 | Median :2.000 | Median :3.00 | Median :3.000 |
| Mean :2.651 | Mean :2.433 | Mean :2.254 | Mean :2.83 | Mean :2.672 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.00 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1494 | NA's :1493 | NA's :1493 | NA's :1496 | NA's :1499 |
| Q12.1_22 | Q12.1_23 | Q12.1_24 | Q13.1_1 | Q13.1_2 |
| Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :2.00 | Median :2.000 | Median :2.000 | Median :3.000 | Median :3.000 |
| Mean :2.11 | Mean :2.319 | Mean :2.185 | Mean :2.742 | Mean :2.914 |
| 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :4.00 | Max. :4.000 | Max. :4.000 | Max. :5.000 | Max. :5.000 |
| NA's :1496 | NA's :1497 | NA's :1496 | NA's :1491 | NA's :1493 |
| Q13.1_3 | Q13.1_4 | Q13.1_5 | Q13.1_6 | Q13.1_7 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.00 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :2.000 | Median :2.00 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :2.568 | Mean :2.57 | Mean :2.752 | Mean :2.924 | Mean :2.679 |
| 3rd Qu.:3.000 | 3rd Qu.:3.00 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.00 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :1494 | NA's :1495 | NA's :1491 | NA's :1492 | NA's :1494 |

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|---------------|---------------|---------------|---------------|---------------|
| Q13.1_8 | Q13.1_9 | Q13.1_10 | Q13.1_11 | Q13.1_12 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.00 | Median :2.000 | Median :2.000 | Median :2.000 |
| Mean :2.615 | Mean :2.33 | Mean :2.351 | Mean :2.417 | Mean :2.532 |
| 3rd Qu.:3.000 | 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.00 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :1491 | NA's :1496 | NA's :1491 | NA's :1496 | NA's :1495 |
| Q13.1_13 | Q13.1_14 | Q13.1_15 | Q13.1_16 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.597 | Mean :2.322 | Mean :2.406 | Mean :2.489 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1490 | NA's :1488 | NA's :1496 | NA's :1492 | |
| Q13.1_17 | Q14.1_1 | Q14.1_2 | Q14.1_3 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :4.000 | Median :3.000 | |
| Mean :2.057 | Mean :2.927 | Mean :3.465 | Mean :2.682 | |
| 3rd Qu.:2.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :2304 | NA's :1497 | NA's :1500 | NA's :1500 | |
| Q14.1_4 | Q14.1_5 | Q14.1_6 | Q14.1_7 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 | |
| Mean :2.974 | Mean :2.702 | Mean :2.527 | Mean :3.008 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1497 | NA's :1499 | NA's :1498 | NA's :1498 | |
| Q14.1_8 | Q14.1_9 | Q14.1_10 | Q14.1_11 | Q14.1_12 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.00 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | Median :3.00 |
| Mean :3.168 | Mean :2.667 | Mean :2.676 | Mean :3.228 | Mean :2.64 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.00 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 |
| NA's :1500 | NA's :1499 | NA's :1496 | NA's :1496 | NA's :1500 |
| Q15.1_1 | Q15.1_2 | Q15.1_3 | Q15.1_4 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:4.000 | 1st Qu.:3.000 | |

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|-------------------|-------------------|------------------|-------------------|--------------|
| Median :4.000 | Median :3.000 | Median :4.000 | Median :4.000 | |
| Mean :3.713 | Mean :3.346 | Mean :3.863 | Mean :3.693 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1471 | NA's :1468 | NA's :1468 | NA's :1465 | |
| Q15.1_5 | Q15.1_6 | Q15.1_7 | Q15.1_8 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | |
| Median :4.000 | Median :4.000 | Median :3.000 | Median :4.000 | |
| Mean :3.777 | Mean :3.664 | Mean :3.348 | Mean :3.525 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1464 | NA's :1466 | NA's :1468 | NA's :1466 | |
| Q15.1_9 | Q16.1_1 | Q16.1_2 | Q16.1_3 | Q16.1_4 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:4.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.00 |
| Median :4.000 | Median :4.000 | Median :2.000 | Median :2.000 | Median :3.00 |
| Mean :3.949 | Mean :3.771 | Mean :2.289 | Mean :2.481 | Mean :2.63 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.00 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 |
| NA's :2285 | NA's :1485 | NA's :1487 | NA's :1489 | NA's :1487 |
| Q16.1_5 | Q16.1_6 | Q16.1_7 | Q17.1 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :0.000e+00 | |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:4.000e+00 | |
| Median :3.000 | Median :4.000 | Median :2.000 | Median :8.000e+00 | |
| Mean :2.876 | Mean :3.587 | Mean :2.609 | Mean :7.894e+05 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:8.000e+00 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :1.552e+09 | |
| NA's :1486 | NA's :1485 | NA's :1486 | NA's :1575 | |
| Q17.2 | Q17.3 | Q18.1 | crt_check1 | |
| Min. :0.000e+00 | Min. :0.000e+00 | Length:12570 | Min. : 0 | |
| 1st Qu.:1.000e+01 | 1st Qu.:2.000e+01 | Class :character | 1st Qu.: 2 | |
| Median :5.000e+01 | Median :2.000e+01 | Mode :character | Median : 2 | |
| Mean :9.665e+04 | Mean :5.038e+07 | | Mean : 622 | |
| 3rd Qu.:5.000e+01 | 3rd Qu.:3.900e+01 | | 3rd Qu.: 3 | |
| Max. :1.061e+09 | Max. :5.498e+11 | | Max. :6767674 | |
| NA's :1579 | NA's :1599 | | NA's :1645 | |
| crt_check2 | do_block_crt | do_block_big | do_q_crt_1 | |
| Length:12570 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| Class :character | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Mode :character | Median :1.000 | Median :2.000 | Median :2.000 | |
| | Mean :1.489 | Mean :1.504 | Mean :1.987 | |
| | 3rd Qu.:2.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 | |

| | | | |
|------------------|------------------|------------------|----------------------|
| | Max. :2.000 | Max. :2.000 | Max. :3.000 |
| | NA's :1428 | NA's :1597 | NA's :3442 |
| do_q_crt_2 | do_q_crt_3 | math_edu_type | math_edu_type_other |
| Min. :1.000 | Min. :1.000 | Length:12570 | Length:12570 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | Class :character | Class :character |
| Median :2.000 | Median :2.000 | Mode :character | Mode :character |
| Mean :1.995 | Mean :2.018 | | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | | |
| Max. :3.000 | Max. :3.000 | | |
| NA's :3442 | NA's :3442 | | |
| math_edu_grade | math_edu_mths | math_edu_level | math_edu_level_other |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|---------------------|---------------------------|-------------------------|
| math_edu_grade_yr10 | math_edu_grade_yr11_entry | math_edu_grade_yr11_int |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|-------------------------|----------------------|--------------------|
| math_edu_grade_yr11_adv | math_edu_grade_other | math_edu_mths_yr10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|------------------------|------------------------|
| math_edu_mths_yr11_entry | math_edu_mths_yr11_int | math_edu_mths_yr11_adv |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

math_edu_mths_other math_edu_primary_level math_edu_grade_grade10

| | | |
|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------|------------------------|-----------------------|
| math_edu_grade_grade11 | math_edu_grade_grade12 | math_edu_mths_grade10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|-----------------------|-----------------------|--------------------------|
| math_edu_mths_grade11 | math_edu_mths_grade12 | math_edu_grade12_course1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|--------------------------|--------------------------|
| math_edu_grade12_course2 | math_edu_grade12_course3 | math_edu_grade12_course4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|--------------------------|--------------------------|--------------------------|
| math_edu_grade12_course5 | math_edu_grade12_course6 | math_edu_grade12_course7 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | |
|--------------------------|----------------------------------|
| math_edu_grade12_course8 | math_edu_grade12_course7_specify |
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| math_edu_grade_grade12_course6 | math_edu_grade_grade12_course7 |
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| math_edu_grade_jnr_cert | math_edu_grade_leaving_cert_app |
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| math_edu_type_none | math_edu_type_specify | math_edu_mths_act | math_edu_mths_sat |
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| math_edu_grade_vwo_wiskunde_a | math_edu_grade_vwo_wiskunde_b |
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| math_edu_grade_vwo_wiskunde_c | math_edu_grade_wiskundetoets |
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Mode :character Mode :character

math_edu_grade_abitur_matura math_edu_mths_vwo_wiskunde_a
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

math_edu_mths_vwo_wiskunde_b math_edu_mths_vwo_wiskunde_c
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

math_edu_mths_wiskundetoets math_edu_mths_abitur_matura
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

maths_edu_grade_10th_std_scc maths_edu_grade_12th_std_hsc
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

maths_edu_mths_10th_std_scc maths_edu_mths_12th_std_hsc
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| math_edu_grade_olevel_spm | math_edu_mths_o_level_spm | math_edu_mths_uec_stpm_etc |
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| math_edu_grade_high_school | math_edu_grade_senior_high |
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| math_edu_bacc_modality | math_edu_yrs | math_edu_grade_hochschulreife |
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| math_edu_mths_hochschulreife | math_edu_grade_brevet_colleges |
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| math_edu_grade_baccalaureate | math_edu_mths_brevet_colleges |
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| math_edu_take_enem | math_edu_grade_enem | math_edu_year_emen | math_edu_no_years |
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| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| math_edu_grade_liseye | math_edu_grade_universiteye | math_edu_mths_liseye |
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| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_emelt_szintu | math_edu_mths_erettsegi | math_edu_mths_emelt_szintu |
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| math_edu_mths_bacalaureat | math_edu_grade_maturita |
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| math_edu_grade_strednej_skole | math_edu_mths_maturita |
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| math_edu_mths_strednej_skole | math_edu_grade_lower | math_edu_grade_general |
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| math_edu_yrsmths_psychometric | math_edu_grade_secondary |
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| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_gymnasio | math_edu_grade_lykeion | math_edu_mths_gymnasio |
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| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_lykeion | math_edu_grade_sta | math_edu_grade_external |
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| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_sta | math_edu_mths_external | stats_edu_first_module |
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| Mode :character | Mode :character | Mode :character |

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| stats_edu_module_1 | stats_edu_module_2 | stats_edu_module_3 | stats_edu_module_4 |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade | stats_edu_grade_1 | stats_edu_grade_2 | stats_edu_grade_3 |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| Mode :character | Mode :character | Mode :character |

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| Mode :character | Mode :character | Mode :character |
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| stats_edu_grade_4_edited | stats_edu_grade_5_edited | stats_edu_grade_6_edited |
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| Mode :character | Mode :character | Mode :character |

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| mod_start_date | mod_end_date | software_excel | software_jamovi |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| software_jasp | software_r | software_sas | software_spss_amos |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| software_spss_stats | software_none | software_other | software_specify |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| freq_or_bayes | topic_covariates | topic_algebra | topic_anova |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_bayes_factors | topic_bayes_theorem | topic_bootstrapping | topic_calculus |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_casual_inference | topic_causality | topic_conf_ints |
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| topic_correlation | topic_data_wrangling | topic_data_vis | topic_distributions |
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topic_descriptive_stats topic_effect_sizes topic_exp_design

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| Length:12570 | Length:12570 | Length:12570 |
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| Mode :character | Mode :character | Mode :character |

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| topic_factor_analysis | topic_moderation | topic_linear_models |
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| Mode :character | Mode :character | Mode :character |

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| topic_logistic_reg | topic_mediation | topic_meta_analysis | topic_assumptions |
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| topic_multi_comparisons | topic_multi_regression | topic_non_para |
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| Mode :character | Mode :character | Mode :character |

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| topic_nhst | topic_ols | topic_open_science | topic_philosophy |
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| topic_probability | topic_psychometrics | topic_qual | topic_reliability |
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| topic_regression | topic_rep_crisis | topic_report_writing | topic_robust_tests |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_power | topic_software | topic_ttest | topic_other_a |
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| topic_other_b | topic_other_c | topic_other_d | topic_specify_a |
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| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_specify_b | topic_specify_c | topic_specify_d | instructor_type |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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|------------------------------|-------------------------------|-------------------|
| instructor_type_main_specify | instructor_type_other_specify | in_person_percent |
| Length:12570 | Length:12570 | Min. : 0.00 |
| Class :character | Class :character | 1st Qu.: 10.00 |
| Mode :character | Mode :character | Median : 40.00 |
| | | Mean : 43.71 |
| | | 3rd Qu.: 75.00 |
| | | Max. :100.00 |

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| | | NA's :9163 |
| in_person_reduction | teaching_mode_lectures | teaching_mode_practicals |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------|-----------------------|-----------------------|
| teaching_mode_seminars | teaching_mode_other_a | teaching_mode_other_b |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| teaching_mode_specify_a | teaching_mode_specify_b | hrs_pw_lectures |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|------------------|------------------|----------------|
| hrs_pw_practicals | hrs_pw_seminars | hrs_pw_other_a | hrs_pw_other_b |
| Length:12570 | Length:12570 | Length:12570 | Min. :0.750 |
| Class :character | Class :character | Class :character | 1st Qu.:1.000 |
| Mode :character | Mode :character | Mode :character | Median :1.000 |
| | | | Mean :0.967 |
| | | | 3rd Qu.:1.000 |
| | | | Max. :1.000 |
| | | | NA's :12509 |

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| in_person_lectures | in_person_lectures_specify | sync_lectures |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| sync_lectures_specify | in_person_practicals | in_person_practicals_specify |
| Length:12570 | Length:12570 | Length:12570 |

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| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| in_person_seminars | in_person_seminars_specify | in_person_other_a |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

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|---------------------------|-------------------|---------------------------|
| in_person_other_a_specify | in_person_other_b | in_person_other_b_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------|-----------------------------|------------------------|
| assess_type_final_exam | assess_type_take_away_paper | assess_type_coursework |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-----------------------------|------------------------|---------------------|
| assess_type_regular_testing | assess_type_attendance | assess_type_other_a |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| assess_type_other_b | assess_type_other_c | assess_type_other_a_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-----------------------------|-----------------------------|
| assess_type_other_b_specify | assess_type_other_c_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|---------------------------|--------------------------------|
| assess_percent_final_exam | assess_percent_take_away_paper |
| Min. : 25.00 | Min. : 0.00 |
| 1st Qu.: 30.00 | 1st Qu.: 16.00 |
| Median : 50.00 | Median : 40.00 |
| Mean : 55.93 | Mean : 33.05 |
| 3rd Qu.: 75.00 | 3rd Qu.: 40.00 |
| Max. :100.00 | Max. :100.00 |
| NA's :9540 | NA's :11976 |

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| assess_percent_coursework | assess_percent_regular_testing |
| Min. : 0.00 | Min. : 0.00 |
| 1st Qu.: 30.00 | 1st Qu.:20.00 |
| Median : 40.00 | Median :35.00 |
| Mean : 45.11 | Mean :34.62 |
| 3rd Qu.: 50.00 | 3rd Qu.:50.00 |
| Max. :100.00 | Max. :70.00 |
| NA's :9322 | NA's :9584 |

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| assess_percent_attendance | assess_percent_other_a | assess_percent_other_b |
| Min. : 0.000 | Min. : 0.00 | Min. : 2.500 |
| 1st Qu.: 0.000 | 1st Qu.: 5.00 | 1st Qu.: 2.500 |
| Median : 0.000 | Median :10.00 | Median : 5.000 |
| Mean : 2.853 | Mean :20.94 | Mean : 8.114 |
| 3rd Qu.: 5.000 | 3rd Qu.:25.00 | 3rd Qu.:10.000 |
| Max. :25.000 | Max. :70.00 | Max. :30.000 |
| NA's :11932 | NA's :11331 | NA's :12289 |

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| assess_percent_other_c | no_of_exams | length_exam_single | date_exam_single |
| Min. : 0.00 | Min. : 1.0 | Min. : 6.00 | Length:12570 |
| 1st Qu.:20.00 | 1st Qu.: 1.0 | 1st Qu.: 75.00 | Class :character |
| Median :27.50 | Median : 1.0 | Median :100.00 | Mode :character |
| Mean :23.34 | Mean : 14.2 | Mean : 95.18 | |
| 3rd Qu.:27.50 | 3rd Qu.: 1.0 | 3rd Qu.:120.00 | |
| Max. :27.50 | Max. :400.0 | Max. :180.00 | |
| NA's :12404 | NA's :9610 | NA's :10226 | |

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| in_person_exam_single | in_person_exam_single_specify | scale_exam_single |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

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| scale_exam_single_yes_specify | scale_exam_single_no_specify | length_exam_multi1 |
| Length:12570 | Length:12570 | Min. : 45.0 |
| Class :character | Class :character | 1st Qu.: 90.0 |
| Mode :character | Mode :character | Median : 90.0 |
| | | Mean :102.4 |
| | | 3rd Qu.:120.0 |
| | | Max. :150.0 |
| | | NA's :12064 |

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| length_exam_multi2 | length_exam_multi3 | length_exam_multi4 | date_exam_multi1 |
| Min. : 15.00 | Min. : 90.00 | Min. : 90.00 | Length:12570 |
| 1st Qu.: 30.00 | 1st Qu.: 90.00 | 1st Qu.: 90.00 | Class :character |
| Median : 90.00 | Median : 90.00 | Median : 90.00 | Mode :character |
| Mean : 75.68 | Mean : 99.94 | Mean : 99.94 | |
| 3rd Qu.:100.00 | 3rd Qu.:120.00 | 3rd Qu.:120.00 | |
| Max. :120.00 | Max. :120.00 | Max. :120.00 | |
| NA's :12160 | NA's :12398 | NA's :12398 | |
| date_exam_multi2 | date_exam_multi3 | date_exam_multi4 | in_person_exam_multi1 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| in_person_exam_multi2 | in_person_exam_multi3 | in_person_exam_multi4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_exam_multi1 | scale_exam_multi1_yes_specify | scale_exam_multi1_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |

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| Mode :character | Mode :character | Mode :character |
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| scale_exam_multi2 | scale_exam_multi2_yes_specify | scale_exam_multi2_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|-------------------------------|------------------------------|
| scale_exam_multi3 | scale_exam_multi3_yes_specify | scale_exam_multi3_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|-------------------------------|------------------------------|
| scale_exam_multi4 | scale_exam_multi4_yes_specify | scale_exam_multi4_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| no_types_reg_tests | freq_reg_tests_single | freq_reg_tests_single_specify |
| Min. : 1.000 | Length:12570 | Length:12570 |
| 1st Qu.: 1.000 | Class :character | Class :character |
| Median : 2.000 | Mode :character | Mode :character |
| Mean : 2.872 | | |
| 3rd Qu.: 3.000 | | |
| Max. :17.000 | | |
| NA's :9654 | | |
| format_reg_tests_single | format_reg_tests_single_cwk_specify | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |

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| timed_reg_tests_single | time_reg_tests_single | all_marks_reg_tests_single |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| all_marks_reg_tests_single_no_specify | all_marks_reg_tests_single_other_specify |
| Length:12570 | Mode:logical |
| Class :character | NA's:12570 |
| Mode :character | |

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| scale_reg_tests_single | scale_reg_tests_single_yes_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| scale_reg_tests_single_no_specify | format_reg_tests_multi1 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_reg_tests_multi1_cwk_specify | freq_reg_tests_multi1 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| freq_reg_tests_multi1_specify | timed_reg_tests_multi1 | time_reg_tests_multi1 |
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| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| all_marks_reg_tests_multi1 | all_marks_reg_tests_multi1_no_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------|-------------------------------------|
| format_reg_tests_multi2 | format_reg_tests_multi2_cwk_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| freq_reg_tests_multi2 | freq_reg_tests_multi2_specify | timed_reg_tests_multi2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| time_reg_tests_multi2 | all_marks_reg_tests_multi2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| all_marks_reg_tests_multi2_no_specify | all_marks_reg_tests_multi2_other_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|------------------|------------------------------|-----------------------------|---------------------|
| no_of_taps | time_taps_single | start_date_tap_single | end_date_tap_single |
| Min. :1.000 | Length:12570 | Length:12570 | Length:12570 |
| 1st Qu.:1.000 | Class :character | Class :character | Class :character |
| Median :1.000 | Mode :character | Mode :character | Mode :character |
| Mean :1.483 | | | |
| 3rd Qu.:1.000 | | | |
| Max. :4.000 | | | |
| NA's :12046 | | | |
| scale_tap_single | scale_tap_single_yes_specify | scale_tap_single_no_specify | |
| Length:12570 | Length:12570 | Length:12570 | |
| Class :character | Class :character | Class :character | |
| Mode :character | Mode :character | Mode :character | |

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| time_taps_multi1 | time_taps_multi2 | time_taps_multi3 | time_taps_multi4 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| start_date_tap_multi1 | start_date_tap_multi2 | start_date_tap_multi3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| start_date_tap_multi4 | end_date_tap_multi1 | end_date_tap_multi2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| end_date_tap_multi3 | end_date_tap_multi4 | scale_tap_multi1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_tap_multi1_yes_specify | scale_tap_multi2 | scale_tap_multi2_yes_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_tap_multi3 | scale_tap_multi3_yes_specify | scale_tap_multi4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_tap_multi4_yes_specify | no_of_cwk | format_cwk_single |
| Length:12570 | Min. : 1.000 | Length:12570 |
| Class :character | 1st Qu.: 1.000 | Class :character |
| Mode :character | Median : 2.000 | Mode :character |
| | Mean : 3.791 | |
| | 3rd Qu.: 3.000 | |
| | Max. :39.000 | |
| | NA's :9400 | |
| format_cwk_single_report_specify | format_cwk_single_other_specify | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |

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| deadline_cwk_single | scale_cwk_single | scale_cwk_single_yes_specify |
| Length:12570 | Length:12570 | Length:12570 |

Class :character Class :character Class :character
Mode :character Mode :character Mode :character

scale_cwk_single_no_specify format_cwk_multi1_full_report
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

format_cwk_multi2_full_report format_cwk_multi3_full_report
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

format_cwk_multi4_full_report format_cwk_multi5_full_report
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

format_cwk_multi6_full_report format_cwk_multi7_full_report
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

format_cwk_multi8_full_report format_cwk_multi9_full_report
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

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|----------------------------------|----------------------------------|
| format_cwk_multi1_partial_report | format_cwk_multi2_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_cwk_multi3_partial_report | format_cwk_multi4_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_cwk_multi5_partial_report | format_cwk_multi10_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_cwk_multi1_proposal | format_cwk_multi2_proposal |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_cwk_multi8_proposal | format_cwk_multi1_other1 | format_cwk_multi2_other1 |
| Mode:logical | Length:12570 | Length:12570 |
| NA's:12570 | Class :character | Class :character |
| | Mode :character | Mode :character |

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| format_cwk_multi3_other1 | format_cwk_multi4_other1 | format_cwk_multi5_other1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| format_cwk_multi_other1_specify | format_cwk_multi1_other2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| format_cwk_multi2_other2 | format_cwk_multi3_other2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|---------------------------------|--------------------------|
| format_cwk_multi_other2_specify | format_cwk_multi6_other3 |
| Length:12570 | Mode:logical |
| Class :character | NA's:12570 |
| Mode :character | |

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| format_cwk_multi_other3_specify | format_cwk_multi7_other4 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

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| format_cwk_multi_other4_specify | format_cwk_multi9_other5 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

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| format_cwk_multi_other5_specify | format_cwk_multi10_other6 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

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| format_cwk_multi_other6_specify | deadline_cwk_multi1 | deadline_cwk_multi2 |
| Mode:logical | Length:12570 | Length:12570 |
| NA's:12570 | Class :character | Class :character |
| | Mode :character | Mode :character |

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| deadline_cwk_multi3 | deadline_cwk_multi4 | deadline_cwk_multi5 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|---------------------|---------------------|---------------------|
| deadline_cwk_multi6 | deadline_cwk_multi7 | deadline_cwk_multi8 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| deadline_cwk_multi9 | deadline_cwk_multi10 | scale_cwk_multi1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_cwk_multi1_yes_specify | scale_cwk_multi1_no_specify | scale_cwk_multi2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi2_yes_specify | scale_cwk_multi2_no_specify | scale_cwk_multi3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi3_yes_specify | scale_cwk_multi3_no_specify | scale_cwk_multi4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi4_yes_specify | scale_cwk_multi4_no_specify | scale_cwk_multi5 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi5_yes_specify | scale_cwk_multi5_no_specify | scale_cwk_multi6 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_cwk_multi6_yes_specify | scale_cwk_multi6_no_specify | scale_cwk_multi7 |
|------------------------------|-----------------------------|------------------|

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| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi7_yes_specify | scale_cwk_multi7_no_specify | scale_cwk_multi8 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|-----------------------------|------------------|
| scale_cwk_multi8_yes_specify | scale_cwk_multi8_no_specify | scale_cwk_multi9 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_cwk_multi9_yes_specify | scale_cwk_multi9_no_specify | scale_cwk_multi10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------------|------------------|------------------|
| scale_cwk_multi10_no_specify | tasks_other1 | date_other1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_other1 | scale_other1_yes_specify | scale_other1_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------|------------------|------------------|------------------|
| info_other1 | tasks_other2 | date_other2 | scale_other2 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|--------------------------|-------------------------|------------------|
| scale_other2_yes_specify | scale_other2_no_specify | info_other2 |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

| | | |
|------------------|------------------|------------------|
| tasks_other3 | date_other3 | scale_other3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|--------------------------|-------------------------|------------------------------|
| scale_other3_yes_specify | scale_other3_no_specify | summative_instructor_written |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|-----------------------------|----------------------------|------------------------|
| summative_instructor_verbal | summative_instructor_grade | summative_peer_written |
| Length:12570 | Length:12570 | Mode:logical |
| Class :character | Class :character | NA's:12570 |
| Mode :character | Mode :character | |

| | | |
|-----------------------|----------------------|------------------|
| summative_peer_verbal | summative_peer_grade | summative_none |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | | |
|------------------|-------------------|------------------|------------------|
| additional_info | grade_module_name | grade | grade_low |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | |
|------------------|----------------------|
| grade_high | grade_category_notes |
| Length:12570 | Length:12570 |
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| Mode :character | Mode :character |

```
# tidyverse alternative
glimpse(df)
```

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Rows: 12,570
Columns: 788
$ unique_id      <chr> "01057178", "0300b5f2", "03f6~
$ survey_id      <chr> "airlangga", "airlangga", "ai~
$ country        <chr> "Indonesia", "Indonesia", "In~
$ language       <chr> "Bahasa Indonesia", "Bahasa I~
$ incentive      <chr> "Prize Draw", "Prize Draw", "~
$ participation_context <chr> "Remotely, in own time", "Rem~
$ progress       <dbl> 100, 100, 100, 78, 100, 100, ~
$ duration       <dbl> 5829, 2084, 5667, 2155, 3342,~
$ start_date     <chr> "7/4/2021", "1/4/2021", "7/4/~
$ end_date       <chr> "7/4/2021", "1/4/2021", "8/4/~
$ university     <chr> "Airlangga University", "Airl~
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| | |
|-------------------------------|--------------------------------------|
| \$ eligibility_ug | <chr> "Yes", "Yes", "Yes", "Yes", "~ |
| \$ eligibility_stats | <chr> "Yes", "Yes", "Yes", "Yes", "~ |
| \$ degree_major | <chr> "Psychology", "Psychology", "~ |
| \$ degree_minor | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ degree_level_maths | <chr> "No", "No", "Yes (please spec~ |
| \$ degree_level_maths_specify | <chr> NA, NA, "Statistics", NA, NA,~ |
| \$ degree_year | <chr> "3rd Year", "4th Year", "4th ~ |
| \$ age | <chr> "18-21", "18-21", "22-25", NA~ |
| \$ gender | <chr> "Male/Man", "Female/Woman", "~ |
| \$ spld | <chr> "I do not have an SpLD", "I d~ |
| \$ attention_amnesty | <chr> "Yes", "Yes", "Yes", NA, "Yes~ |
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| \$ Q7.1_13 | <dbl> 4, 2, 5, 3, 5, 2, 1, 2, 4, 4,~ |
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| \$ Q7.1_17 | <dbl> 2, 2, 2, 2, 4, 1, 1, 1, 3, 5,~ |
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| \$ Q7.1_24 | <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~ |
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| \$ topic_power | <chr> "Statistical power", "Statist~ |
| \$ topic_software | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_ttest | <chr> "T-test", "T-test", "T-test",~ |
| \$ topic_other_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_other_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_other_c | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_other_d | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_specify_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_specify_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_specify_c | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ topic_specify_d | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ instructor_type | <chr> "Main discipline (please spec~ |
| \$ instructor_type_main_specify | <chr> "Psychology", "Psychology", "~ |
| \$ instructor_type_other_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_percent | <dbl> 75, 75, 75, 75, 75, 75, 75, 7~ |
| \$ in_person_reduction | <chr> "Yes, there was less in-person~ |
| \$ teaching_mode_lectures | <chr> "Lectures", "Lectures", "Lect~ |
| \$ teaching_mode_practicals | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ teaching_mode_seminars | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ teaching_mode_other_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ teaching_mode_other_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ teaching_mode_specify_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ teaching_mode_specify_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ hrs_pw_lectures | <chr> "7", "7", "7", "7", "7", "7",~ |
| \$ hrs_pw_practicals | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ hrs_pw_seminars | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ hrs_pw_other_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ hrs_pw_other_b | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_lectures | <chr> "Online", "Online", "Online",~ |
| \$ in_person_lectures_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ sync_lectures | <chr> "Other (please specify)", "Ot~ |
| \$ sync_lectures_specify | <chr> "Combination of sync and asyn~ |
| \$ in_person_practicals | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_practicals_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_seminars | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_seminars_specify | <lgl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_other_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_other_a_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_other_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_other_b_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_final_exam | <chr> "Final Exam(s)", "Final Exam(~ |
| \$ assess_type_take_away_paper | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_coursework | <chr> "Coursework (e.g. lab report)~ |

| | |
|-----------------------------------|--------------------------------------|
| \$ assess_type_regular_testing | <chr> "Regular Testing (e.g. contin~ |
| \$ assess_type_attendance | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_a | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_b | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_c | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_a_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_b_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_type_other_c_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_percent_final_exam | <dbl> 30, 30, 30, 30, 30, 30, 30, 3~ |
| \$ assess_percent_take_away_paper | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_percent_coursework | <dbl> 50, 50, 50, 50, 50, 50, 50, 5~ |
| \$ assess_percent_regular_testing | <dbl> 20, 20, 20, 20, 20, 20, 20, 2~ |
| \$ assess_percent_attendance | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_percent_other_a | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_percent_other_b | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ assess_percent_other_c | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ no_of_exams | <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~ |
| \$ length_exam_single | <dbl> 75, 75, 75, 75, 75, 75, 75, 7~ |
| \$ date_exam_single | <chr> "12/1/2021", "12/1/2021", "12~ |
| \$ in_person_exam_single | <chr> "Online", "Online", "Online",~ |
| \$ in_person_exam_single_specify | <lgl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_single | <chr> "Yes (please specify the scal~ |
| \$ scale_exam_single_yes_specify | <chr> "0-100", "0-100", "0-100", "0~ |
| \$ scale_exam_single_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ length_exam_multi1 | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ length_exam_multi2 | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ length_exam_multi3 | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ length_exam_multi4 | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_exam_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_exam_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_exam_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_exam_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_exam_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_exam_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_exam_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ in_person_exam_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi1 | <chr> "Yes (please specify the scal~ |
| \$ scale_exam_multi1_yes_specify | <chr> "0-100", "0-100", "0-100", "0~ |
| \$ scale_exam_multi1_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi2_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi2_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |

| | |
|---|--------------------------------------|
| \$ scale_exam_multi3_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi3_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi4_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_exam_multi4_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ no_types_reg_tests | <dbl> 5, 5, 5, 5, 5, 5, 5, 5, 5, 5,~ |
| \$ freq_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ freq_reg_tests_single_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_reg_tests_single_cwk_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ timed_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ time_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ all_marks_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ all_marks_reg_tests_single_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ all_marks_reg_tests_single_other_specify | <lgl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_reg_tests_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_reg_tests_single_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_reg_tests_single_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_reg_tests_multi1 | <chr> "Online exams (under exam con~ |
| \$ format_reg_tests_multi1_cwk_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ freq_reg_tests_multi1 | <chr> "Other (please specify)", "Ot~ |
| \$ freq_reg_tests_multi1_specify | <chr> "once", "once", "once", "once~ |
| \$ timed_reg_tests_multi1 | <chr> "Yes", "Yes", "Yes", "Yes", "~ |
| \$ time_reg_tests_multi1 | <chr> "20-30 minutes", "20-30 minut~ |
| \$ all_marks_reg_tests_multi1 | <chr> "Yes, all marks from regular ~ |
| \$ all_marks_reg_tests_multi1_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_reg_tests_multi2 | <chr> "Online exams (under exam con~ |
| \$ format_reg_tests_multi2_cwk_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ freq_reg_tests_multi2 | <chr> "Fortnightly (every 2 weeks)"~ |
| \$ freq_reg_tests_multi2_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ timed_reg_tests_multi2 | <chr> "Yes", "Yes", "Yes", "Yes", "~ |
| \$ time_reg_tests_multi2 | <chr> "20-30 minutes", "20-30 minut~ |
| \$ all_marks_reg_tests_multi2 | <chr> "Yes, all marks from regular ~ |
| \$ all_marks_reg_tests_multi2_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ all_marks_reg_tests_multi2_other_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ no_of_taps | <dbl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ time_taps_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ start_date_tap_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ end_date_tap_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_single | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_single_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_single_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ time_taps_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |

| | |
|--------------------------------------|--------------------------------------|
| \$ time_taps_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ time_taps_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ time_taps_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ start_date_tap_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ start_date_tap_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ start_date_tap_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ start_date_tap_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ end_date_tap_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ end_date_tap_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ end_date_tap_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ end_date_tap_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi1_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi2_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi3_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi4 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_tap_multi4_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ no_of_cwk | <dbl> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,~ |
| \$ format_cwk_single | <chr> "Research proposal", "Researc~ |
| \$ format_cwk_single_report_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_single_other_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ deadline_cwk_single | <chr> "20/01/2021", "20/01/2021", "~ |
| \$ scale_cwk_single | <chr> "Yes (please specify the scal~ |
| \$ scale_cwk_single_yes_specify | <chr> "0-100", "0-100", "0-100", "0~ |
| \$ scale_cwk_single_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi1_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi2_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi3_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi4_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi5_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi6_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi7_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi8_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi9_full_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi1_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi2_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi3_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi4_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi5_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi10_partial_report | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ format_cwk_multi1_proposal | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |

[illegible]

| | |
|---------------------------------|--------------------------------------|
| \$ scale_cwk_multi5_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi5_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi6 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi6_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi6_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi7 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi7_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi7_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi8 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi8_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi8_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi9 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi9_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi9_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi10 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_cwk_multi10_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ tasks_other1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_other1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other1_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other1_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ info_other1 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ tasks_other2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_other2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other2_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other2_no_specify | <lgl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ info_other2 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ tasks_other3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ date_other3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other3 | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other3_yes_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ scale_other3_no_specify | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ summative_instructor_written | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ summative_instructor_verbal | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ summative_instructor_grade | <chr> "Yes - instructor given grade~ |
| \$ summative_peer_written | <lgl> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ summative_peer_verbal | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ summative_peer_grade | <chr> "Yes - peer given grade", "Ye~ |
| \$ summative_none | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ additional_info | <chr> NA, NA, NA, NA, NA, NA, NA, N~ |
| \$ grade_module_name | <chr> "Not Available", "Not Availab~ |
| \$ grade | <chr> "Not Available", "Not Availab~ |


```
$ grade_low           <chr> NA, NA, NA, NA, NA, NA, NA, N~
$ grade_high          <chr> NA, NA, NA, NA, NA, NA, NA, N~
$ grade_category_notes <chr> NA, NA, NA, NA, NA, NA, NA, N~
```

```
# Count the number of missing values per column
colSums(is.na(df))
```

```
unique_id
0
survey_id
0
country
0
language
0
incentive
17
participation_context
1513
progress
0
duration
0
start_date
0
end_date
0
university
0
eligibility_ug
101
eligibility_stats
239
degree_major
1526
degree_minor
12339
degree_level_maths
26
degree_level_maths_specify
9739
degree_year
```

| | |
|-------------------|--------|
| | 2287 |
| | age |
| | 3115 |
| | gender |
| | 2183 |
| | spld |
| | 2692 |
| attention_amnesty | |
| | 2117 |
| Q7.1_1 | |
| | 457 |
| Q7.1_2 | |
| | 458 |
| Q7.1_3 | |
| | 453 |
| Q7.1_4 | |
| | 451 |
| Q7.1_5 | |
| | 457 |
| Q7.1_6 | |
| | 467 |
| Q7.1_7 | |
| | 461 |
| Q7.1_8 | |
| | 454 |
| Q7.1_9 | |
| | 457 |
| Q7.1_10 | |
| | 459 |
| Q7.1_11 | |
| | 461 |
| Q7.1_12 | |
| | 454 |
| Q7.1_13 | |
| | 462 |
| Q7.1_14 | |
| | 459 |
| Q7.1_15 | |
| | 452 |
| Q7.1_16 | |
| | 463 |
| Q7.1_17 | |
| | 457 |

Q7.1_18
460
Q7.1_19
453
Q7.1_20
458
Q7.1_21
458
Q7.1_22
463
Q7.1_23
460
Q7.1_24
1306
Q7.2_1
460
Q7.2_2
453
Q7.2_3
462
Q7.2_4
457
Q7.2_5
462
Q7.2_6
457
Q7.2_7
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Q7.2_8
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Q7.2_9
455
Q7.2_10
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Q7.2_11
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Q7.2_12
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Q7.2_14
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Q7.2_15

460
Q7.2_16
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Q7.2_17
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Q7.2_18
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Q7.2_21
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Q7.2_22
558
Q7.2_23
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Q8.1_3
440
Q8.1_4
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Q8.1_5
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Q8.1_6
447
Q8.1_7
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Q8.1_8
441
Q8.1_9
447
Q8.1_10
443
Q8.1_11
440
Q8.1_12
446
Q8.1_13
441

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scale_exam_multi3_yes_specify
            12513
    scale_exam_multi3_no_specify
            12455
        scale_exam_multi4
            12398
scale_exam_multi4_yes_specify
            12513
    scale_exam_multi4_no_specify
            12455
        no_types_reg_tests
            9654
    freq_reg_tests_single

```

| | |
|--|-------|
| | 11180 |
| freq_reg_tests_single_specify | 11915 |
| format_reg_tests_single | 11180 |
| format_reg_tests_single_cwk_specify | 12328 |
| timed_reg_tests_single | 11422 |
| time_reg_tests_single | 11534 |
| all_marks_reg_tests_single | 11180 |
| all_marks_reg_tests_single_no_specify | 12062 |
| all_marks_reg_tests_single_other_specify | 12570 |
| scale_reg_tests_single | 11364 |
| scale_reg_tests_single_yes_specify | 11496 |
| scale_reg_tests_single_no_specify | 12444 |
| format_reg_tests_multi1 | 11044 |
| format_reg_tests_multi1_cwk_specify | 12553 |
| freq_reg_tests_multi1 | 11044 |
| freq_reg_tests_multi1_specify | 12102 |
| timed_reg_tests_multi1 | 11061 |
| time_reg_tests_multi1 | 11747 |
| all_marks_reg_tests_multi1 | 11044 |
| all_marks_reg_tests_multi1_no_specify | 12242 |
| format_reg_tests_multi2 | 11181 |
| format_reg_tests_multi2_cwk_specify | 11899 |

```

        freq_reg_tests_multi2
            11181
    freq_reg_tests_multi2_specify
        12101
        timed_reg_tests_multi2
            11852
        time_reg_tests_multi2
            11891
        all_marks_reg_tests_multi2
            11181
    all_marks_reg_tests_multi2_no_specify
        12417
    all_marks_reg_tests_multi2_other_specify
        12482
        no_of_taps
            12046
        time_taps_single
            12159
        start_date_tap_single
            12192
        end_date_tap_single
            12192
        scale_tap_single
            12159
    scale_tap_single_yes_specify
        12363
    scale_tap_single_no_specify
        12366
        time_taps_multi1
            12474
        time_taps_multi2
            12474
        time_taps_multi3
            12474
        time_taps_multi4
            12509
        start_date_tap_multi1
            12474
        start_date_tap_multi2
            12474
        start_date_tap_multi3
            12474
        start_date_tap_multi4

```

| | |
|----------------------------------|-------|
| | 12509 |
| end_date_tap_multi1 | 12474 |
| end_date_tap_multi2 | 12474 |
| end_date_tap_multi3 | 12474 |
| end_date_tap_multi4 | 12509 |
| scale_tap_multi1 | 12474 |
| scale_tap_multi1_yes_specify | 12474 |
| scale_tap_multi2 | 12474 |
| scale_tap_multi2_yes_specify | 12474 |
| scale_tap_multi3 | 12474 |
| scale_tap_multi3_yes_specify | 12474 |
| scale_tap_multi4 | 12509 |
| scale_tap_multi4_yes_specify | 12509 |
| no_of_cwk | 9400 |
| format_cwk_single | 11196 |
| format_cwk_single_report_specify | 12319 |
| format_cwk_single_other_specify | 12548 |
| deadline_cwk_single | 11198 |
| scale_cwk_single | 11196 |
| scale_cwk_single_yes_specify | 11245 |
| scale_cwk_single_no_specify | 12521 |
| format_cwk_multi1_full_report | 11743 |

| | |
|-----------------------------------|-------|
| format_cwk_multi2_full_report | 11590 |
| format_cwk_multi3_full_report | 12155 |
| format_cwk_multi4_full_report | 12367 |
| format_cwk_multi5_full_report | 12367 |
| format_cwk_multi6_full_report | 12484 |
| format_cwk_multi7_full_report | 12484 |
| format_cwk_multi8_full_report | 12484 |
| format_cwk_multi9_full_report | 12509 |
| format_cwk_multi1_partial_report | 12155 |
| format_cwk_multi2_partial_report | 12191 |
| format_cwk_multi3_partial_report | 12425 |
| format_cwk_multi4_partial_report | 12425 |
| format_cwk_multi5_partial_report | 12428 |
| format_cwk_multi10_partial_report | 12509 |
| format_cwk_multi1_proposal | 12439 |
| format_cwk_multi2_proposal | 12548 |
| format_cwk_multi8_proposal | 12570 |
| format_cwk_multi1_other1 | 12387 |
| format_cwk_multi2_other1 | 12463 |
| format_cwk_multi3_other1 | 12509 |
| format_cwk_multi4_other1 | 12526 |
| format_cwk_multi5_other1 | |

| | |
|---------------------------------|-------|
| | 12526 |
| format_cwk_multi_other1_specify | |
| | 12307 |
| format_cwk_multi1_other2 | |
| | 12553 |
| format_cwk_multi2_other2 | |
| | 12550 |
| format_cwk_multi3_other2 | |
| | 12535 |
| format_cwk_multi_other2_specify | |
| | 12498 |
| format_cwk_multi6_other3 | |
| | 12570 |
| format_cwk_multi_other3_specify | |
| | 12570 |
| format_cwk_multi7_other4 | |
| | 12570 |
| format_cwk_multi_other4_specify | |
| | 12570 |
| format_cwk_multi9_other5 | |
| | 12570 |
| format_cwk_multi_other5_specify | |
| | 12570 |
| format_cwk_multi10_other6 | |
| | 12570 |
| format_cwk_multi_other6_specify | |
| | 12570 |
| deadline_cwk_multi1 | |
| | 11457 |
| deadline_cwk_multi2 | |
| | 11457 |
| deadline_cwk_multi3 | |
| | 12284 |
| deadline_cwk_multi4 | |
| | 12323 |
| deadline_cwk_multi5 | |
| | 12323 |
| deadline_cwk_multi6 | |
| | 12492 |
| deadline_cwk_multi7 | |
| | 12509 |
| deadline_cwk_multi8 | |
| | 12509 |

```

        deadline_cwk_multi9
            12509
        deadline_cwk_multi10
            12509
            scale_cwk_multi1
                11156
scale_cwk_multi1_yes_specify
            11447
        scale_cwk_multi1_no_specify
            12279
            scale_cwk_multi2
                11156
scale_cwk_multi2_yes_specify
            11430
        scale_cwk_multi2_no_specify
            12296
            scale_cwk_multi3
                11983
scale_cwk_multi3_yes_specify
            12063
        scale_cwk_multi3_no_specify
            12490
            scale_cwk_multi4
                12247
scale_cwk_multi4_yes_specify
            12323
        scale_cwk_multi4_no_specify
            12494
            scale_cwk_multi5
                12250
scale_cwk_multi5_yes_specify
            12323
        scale_cwk_multi5_no_specify
            12497
            scale_cwk_multi6
                12427
scale_cwk_multi6_yes_specify
            12492
        scale_cwk_multi6_no_specify
            12505
            scale_cwk_multi7
                12444
scale_cwk_multi7_yes_specify

```

12509
 scale_cwk_multi7_no_specify
 12505
 scale_cwk_multi8
 12444
 scale_cwk_multi8_yes_specify
 12509
 scale_cwk_multi8_no_specify
 12505
 scale_cwk_multi9
 12444
 scale_cwk_multi9_yes_specify
 12509
 scale_cwk_multi9_no_specify
 12505
 scale_cwk_multi10
 12509
 scale_cwk_multi10_no_specify
 12509
 tasks_other1
 11337
 date_other1
 11347
 scale_other1
 11337
 scale_other1_yes_specify
 12027
 scale_other1_no_specify
 11880
 info_other1
 12132
 tasks_other2
 12295
 date_other2
 12303
 scale_other2
 12295
 scale_other2_yes_specify
 12307
 scale_other2_no_specify
 12570
 info_other2
 12535

| | |
|------------------------------|--|
| tasks_other3 | |
| 12404 | |
| date_other3 | |
| 12404 | |
| scale_other3 | |
| 12404 | |
| scale_other3_yes_specify | |
| 12522 | |
| scale_other3_no_specify | |
| 12452 | |
| summative_instructor_written | |
| 11613 | |
| summative_instructor_verbal | |
| 10512 | |
| summative_instructor_grade | |
| 12003 | |
| summative_peer_written | |
| 12570 | |
| summative_peer_verbal | |
| 12411 | |
| summative_peer_grade | |
| 12230 | |
| summative_none | |
| 11025 | |
| additional_info | |
| 11719 | |
| grade_module_name | |
| 815 | |
| grade | |
| 1457 | |
| grade_low | |
| 1578 | |
| grade_high | |
| 1578 | |
| grade_category_notes | |
| 9253 | |

0.3 Scoring

My dataset contains the individual items on several measures. I will need to create a total score.

0.4 Eliminating / Filtering data

The survey contains an attention check. If participants did not pass the attention check, then they should not be included in later analyses.

```
# Check the variable type
class(df$Q7.1_24)
```

```
[1] "numeric"
```

```
# Q7.1_24 is the attention check item
# Participants were asked to:
# Please select '1 - no anxiety' for this question
# Any participant who did not select 1 should be removed
freq(as.ordered(df$Q7.1_24), plot = FALSE)
```

```
as.ordered(df$Q7.1_24)
```

| | Frequency | Percent | Valid Percent | Cum Percent |
|-------|-----------|---------|---------------|-------------|
| 1 | 10518 | 83.675 | 93.377 | 93.38 |
| 2 | 165 | 1.313 | 1.465 | 94.84 |
| 3 | 250 | 1.989 | 2.219 | 97.06 |
| 4 | 179 | 1.424 | 1.589 | 98.65 |
| 5 | 152 | 1.209 | 1.349 | 100.00 |
| NA's | 1306 | 10.390 | | |
| Total | 12570 | 100.000 | 100.000 | |

Drop any case that did not answer 1 to Q7.1_24.

```
# Drop cases where Q7.1_1 is NOT 1
# If this variable was text, then use quotes
df_attention <- df %>%
  filter(Q7.1_1 == 1)

head(df_attention)
```

```
# A tibble: 6 x 788
  unique_id survey_id country language incentive participation_context progress
  <chr>      <chr>      <chr>    <chr>    <chr>      <chr>              <dbl>
1 0903d70d  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time    100
2 093d86f8  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time    100
```

```

3 19fa5a1b  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time      41
4 29df6c94  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time     100
5 47afd764  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time     100
6 502cc749  airlangga Indones~ Bahasa ~ Prize Dr~ Remotely, in own time     100
# i 781 more variables: duration <dbl>, start_date <chr>, end_date <chr>,
#   university <chr>, eligibility_ug <chr>, eligibility_stats <chr>,
#   degree_major <chr>, degree_minor <chr>, degree_level_maths <chr>,
#   degree_level_maths_specify <chr>, degree_year <chr>, age <chr>,
#   gender <chr>, spld <chr>, attention_amnesty <chr>, Q7.1_1 <dbl>,
#   Q7.1_2 <dbl>, Q7.1_3 <dbl>, Q7.1_4 <dbl>, Q7.1_5 <dbl>, Q7.1_6 <dbl>,
#   Q7.1_7 <dbl>, Q7.1_8 <dbl>, Q7.1_9 <dbl>, Q7.1_10 <dbl>, Q7.1_11 <dbl>, ...

```

0.5 Subsetting the Data

Limit the variables

```

# List of variables to keep
selected_vars <- c("unique_id", "survey_id", "country", "language", "incentive",
  "age", "gender", "degree_major", "degree_level_maths",
  "Q7.1_1", "Q7.1_2", "Q7.1_3", "Q7.1_4", "Q7.1_5", "Q7.1_6", "Q7.1_7", "Q7.1_8",
  "Q8.1_1", "Q8.1_2", "Q8.1_3", "Q8.1_4", "Q8.1_5", "Q8.1_6", "Q8.1_7", "Q8.1_8",
  "Q9.1_1", "Q9.1_2", "Q9.1_3", "Q9.1_4", "Q9.1_5", "Q9.1_6", "Q9.1_7", "Q9.1_8",
  "Q10.1_1", "Q10.1_2", "Q10.1_3", "Q10.1_4", "Q10.1_5",
  "Q11.1_1", "Q11.1_2", "Q11.1_3", "Q11.1_4",
  "Q12.1_1", "Q12.1_2", "Q12.1_3", "Q12.1_4",
  "Q13.1_1", "Q13.1_2", "Q13.1_3", "Q13.1_4",
  "Q14.1_1", "Q14.1_2", "Q14.1_3", "Q14.1_4",
  "Q15.1_1", "Q15.1_2", "Q15.1_3", "Q15.1_4",
  "Q16.1_1", "Q16.1_2", "Q16.1_3", "Q16.1_4",
  "Q17.1", "Q17.2", "Q17.3")

# Create focused data frame with only variables that I might be using.
dfSubset <- df |>
  select(all_of(selected_vars))

head(dfSubset)

# A tibble: 6 x 71
  unique_id survey_id country language incentive age gender degree_major
  <chr>      <chr>      <chr>    <chr>      <chr>    <chr> <chr>    <chr>
1 01057178  airlangga Indonesia Bahasa Indo~ Prize Dr~ 18-21 Male/~ Psychology

```

```

2 0300b5f2  airlangga Indonesia Bahasa Indo~ Prize Dr~ 18-21 Femal~ Psychology
3 03f6503b  airlangga Indonesia Bahasa Indo~ Prize Dr~ 22-25 Femal~ Psychology
4 0601d699  airlangga Indonesia Bahasa Indo~ Prize Dr~ <NA> <NA> Psychology
5 08b6cb02  airlangga Indonesia Bahasa Indo~ Prize Dr~ 18-21 Femal~ Psychology
6 0903d70d  airlangga Indonesia Bahasa Indo~ Prize Dr~ 18-21 Femal~ Psychology
# i 63 more variables: degree_level_maths <chr>, Q7.1_1 <dbl>, Q7.1_2 <dbl>,
#   Q7.1_3 <dbl>, Q7.1_4 <dbl>, Q7.1_5 <dbl>, Q7.1_6 <dbl>, Q7.1_7 <dbl>,
#   Q7.1_8 <dbl>, Q7.1_9 <dbl>, Q7.1_10 <dbl>, Q8.1_1 <dbl>, Q8.1_2 <dbl>,
#   Q8.1_3 <dbl>, Q8.1_4 <dbl>, Q8.1_5 <dbl>, Q8.1_6 <dbl>, Q8.1_7 <dbl>,
#   Q8.1_8 <dbl>, Q8.1_9 <dbl>, Q8.1_10 <dbl>, Q9.1_1 <dbl>, Q9.1_2 <dbl>,
#   Q9.1_3 <dbl>, Q9.1_4 <dbl>, Q9.1_5 <dbl>, Q9.1_6 <dbl>, Q9.1_7 <dbl>,
#   Q9.1_8 <dbl>, Q9.1_9 <dbl>, Q9.1_10 <dbl>, Q10.1_1 <dbl>, ...

```

0.6 Identifying and Handling Missing Data

Invalid values must be replaced with NA. The `summary()` function can help find variables that need to be modified.

```
summary(df)
```

| unique_id | survey_id | country | language |
|------------------|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| incentive | participation_context | progress | duration |
|------------------|-----------------------|----------------|---------------|
| Length:12570 | Length:12570 | Min. : 14.00 | Min. : 61 |
| Class :character | Class :character | 1st Qu.: 98.00 | 1st Qu.: 1282 |
| Mode :character | Mode :character | Median :100.00 | Median : 1802 |
| | | Mean : 90.15 | Mean : 8816 |
| | | 3rd Qu.:100.00 | 3rd Qu.: 2651 |
| | | Max. :100.00 | Max. :4141988 |

| start_date | end_date | university | eligibility_ug |
|------------------|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | | |
|-------------------|------------------|------------------|--------------------|
| eligibility_stats | degree_major | degree_minor | degree_level_maths |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|----------------------------|------------------|------------------|
| degree_level_maths_specify | degree_year | age |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | | |
|------------------|------------------|-------------------|---------------|
| gender | spld | attention_amnesty | Q7.1_1 |
| Length:12570 | Length:12570 | Length:12570 | Min. :1.000 |
| Class :character | Class :character | Class :character | 1st Qu.:2.000 |
| Mode :character | Mode :character | Mode :character | Median :3.000 |
| | | | Mean :3.229 |
| | | | 3rd Qu.:4.000 |
| | | | Max. :5.000 |
| | | | NA's :457 |

| | | | |
|---------------|---------------|---------------|---------------|
| Q7.1_2 | Q7.1_3 | Q7.1_4 | Q7.1_5 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :2.696 | Mean :2.817 | Mean :2.858 | Mean :2.687 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :458 | NA's :453 | NA's :451 | NA's :457 |

| | | | | |
|---------------|---------------|---------------|--------------|---------------|
| Q7.1_6 | Q7.1_7 | Q7.1_8 | Q7.1_9 | Q7.1_10 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:1.00 | 1st Qu.:3.000 |
| Median :2.000 | Median :3.000 | Median :4.000 | Median :2.00 | Median :4.000 |
| Mean :2.424 | Mean :3.167 | Mean :3.841 | Mean :2.03 | Mean :3.647 |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:3.00 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :467 | NA's :461 | NA's :454 | NA's :457 | NA's :459 |

| | | | |
|---------------|---------------|---------------|---------------|
| Q7.1_11 | Q7.1_12 | Q7.1_13 | Q7.1_14 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.000 | Median :3.000 | Median :3.000 |
| Mean :2.698 | Mean :2.583 | Mean :3.374 | Mean :2.654 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :461 | NA's :454 | NA's :462 | NA's :459 |
| Q7.1_15 | Q7.1_16 | Q7.1_17 | Q7.1_18 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Median :4.000 | Median :3.000 | Median :2.000 | Median :2.000 |
| Mean :3.607 | Mean :2.711 | Mean :2.362 | Mean :2.461 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :452 | NA's :463 | NA's :457 | NA's :460 |
| Q7.1_19 | Q7.1_20 | Q7.1_21 | Q7.1_22 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 |
| Median :2.000 | Median :3.000 | Median :2.000 | Median :3.000 |
| Mean :2.612 | Mean :2.735 | Mean :2.576 | Mean :3.048 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :453 | NA's :458 | NA's :458 | NA's :463 |
| Q7.1_23 | Q7.1_24 | Q7.2_1 | Q7.2_2 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:3.000 |
| Median :2.000 | Median :1.000 | Median :3.000 | Median :4.000 |
| Mean :2.314 | Mean :1.161 | Mean :3.162 | Mean :3.657 |
| 3rd Qu.:3.000 | 3rd Qu.:1.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :460 | NA's :1306 | NA's :460 | NA's :453 |
| Q7.2_3 | Q7.2_4 | Q7.2_5 | Q7.2_6 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:3.000 |
| Median :4.000 | Median :4.000 | Median :3.000 | Median :4.000 |
| Mean :3.577 | Mean :4.025 | Mean :3.167 | Mean :3.687 |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :462 | NA's :457 | NA's :462 | NA's :457 |
| Q7.2_7 | Q7.2_8 | Q7.2_9 | Q7.2_10 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:4.000 |

| | | | |
|---------------|---------------|---------------|---------------|
| Median :4.000 | Median :3.000 | Median :4.000 | Median :5.000 |
| Mean :3.901 | Mean :3.099 | Mean :3.791 | Mean :4.141 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :462 | NA's :466 | NA's :455 | NA's :451 |
| Q7.2_11 | Q7.2_12 | Q7.2_13 | Q7.2_14 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :3.003 | Mean :2.879 | Mean :2.825 | Mean :2.912 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :463 | NA's :460 | NA's :466 | NA's :459 |
| Q7.2_15 | Q7.2_16 | Q7.2_17 | Q7.2_18 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Median :1.000 | Median :2.000 | Median :2.000 | Median :2.000 |
| Mean :1.846 | Mean :2.406 | Mean :2.592 | Mean :2.432 |
| 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :460 | NA's :457 | NA's :467 | NA's :461 |
| Q7.2_19 | Q7.2_20 | Q7.2_21 | Q7.2_22 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 |
| Mean :2.447 | Mean :2.397 | Mean :2.575 | Mean :2.437 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :462 | NA's :551 | NA's :556 | NA's :558 |
| Q7.2_23 | Q8.1_1 | Q8.1_2 | Q8.1_3 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :2.703 | Mean :3.213 | Mean :2.628 | Mean :2.777 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :555 | NA's :451 | NA's :442 | NA's :440 |
| Q8.1_4 | Q8.1_5 | Q8.1_6 | Q8.1_7 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 |
| Mean :2.741 | Mean :2.619 | Mean :2.474 | Mean :2.862 |
| 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :444 | NA's :448 | NA's :447 | NA's :442 | |
| Q8.1_8 | Q8.1_9 | Q8.1_10 | Q8.1_11 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :4.000 | Median :4.000 | Median :1.000 | Median :3.000 | |
| Mean :3.762 | Mean :3.622 | Mean :1.947 | Mean :3.366 | |
| 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :441 | NA's :447 | NA's :443 | NA's :440 | |
| Q8.1_12 | Q8.1_13 | Q8.1_14 | Q8.1_15 | Q8.1_16 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:2.000 |
| Median :3.000 | Median :4.000 | Median :3.000 | Median :2.00 | Median :2.000 |
| Mean :2.837 | Mean :3.601 | Mean :2.692 | Mean :2.45 | Mean :2.618 |
| 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:3.00 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :446 | NA's :441 | NA's :447 | NA's :441 | NA's :452 |
| Q8.1_17 | Q8.1_18 | Q8.1_19 | Q8.1_20 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :3.000 | Median :2.000 | |
| Mean :2.602 | Mean :2.612 | Mean :3.019 | Mean :2.301 | |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :443 | NA's :447 | NA's :439 | NA's :449 | |
| Q8.1_21 | Q8.2_1 | Q8.2_2 | Q8.2_3 | Q8.2_4 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:5.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:3.00 | 1st Qu.:3.000 |
| Median :5.000 | Median :3.000 | Median :4.000 | Median :4.00 | Median :4.000 |
| Mean :4.788 | Mean :3.067 | Mean :3.659 | Mean :3.51 | Mean :3.971 |
| 3rd Qu.:5.000 | 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.00 | 3rd Qu.:5.000 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 | Max. :5.000 |
| NA's :1282 | NA's :446 | NA's :444 | NA's :456 | NA's :455 |
| Q8.2_5 | Q8.2_6 | Q8.2_7 | Q8.2_8 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :4.000 | Median :4.000 | Median :3.000 | |
| Mean :3.084 | Mean :3.622 | Mean :3.836 | Mean :3.099 | |
| 3rd Qu.:4.000 | 3rd Qu.:5.000 | 3rd Qu.:5.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :450 | NA's :457 | NA's :447 | NA's :444 | |
| Q8.2_9 | Q8.2_10 | Q8.2_11 | Q8.2_12 | Q8.2_13 |

| | | | | | | | | | |
|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.00 | Min. | :1.000 |
| 1st Qu. | :3.000 | 1st Qu. | :3.000 | 1st Qu. | :1.000 | 1st Qu. | :1.00 | 1st Qu. | :1.000 |
| Median | :4.000 | Median | :4.000 | Median | :1.000 | Median | :2.00 | Median | :2.000 |
| Mean | :3.717 | Mean | :4.029 | Mean | :1.602 | Mean | :2.15 | Mean | :1.977 |
| 3rd Qu. | :5.000 | 3rd Qu. | :5.000 | 3rd Qu. | :2.000 | 3rd Qu. | :3.00 | 3rd Qu. | :3.000 |
| Max. | :5.000 | Max. | :5.000 | Max. | :5.000 | Max. | :5.00 | Max. | :5.000 |
| NA's | :453 | NA's | :459 | NA's | :444 | NA's | :446 | NA's | :451 |
| Q8.2_14 | | Q8.2_15 | | Q8.2_16 | | Q8.2_17 | | Q8.2_18 | |
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.00 | Min. | :1.000 |
| 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :1.00 | 1st Qu. | :1.000 |
| Median | :2.000 | Median | :2.000 | Median | :1.000 | Median | :2.00 | Median | :2.000 |
| Mean | :2.191 | Mean | :2.368 | Mean | :1.783 | Mean | :2.36 | Mean | :2.603 |
| 3rd Qu. | :3.000 | 3rd Qu. | :3.000 | 3rd Qu. | :2.000 | 3rd Qu. | :3.00 | 3rd Qu. | :4.000 |
| Max. | :5.000 | Max. | :5.000 | Max. | :5.000 | Max. | :5.00 | Max. | :5.000 |
| NA's | :444 | NA's | :455 | NA's | :458 | NA's | :446 | NA's | :457 |
| Q8.2_19 | | Q8.2_20 | | Q8.2_21 | | Q8.2_22 | | | |
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | | |
| 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :2.000 | 1st Qu. | :2.000 | | |
| Median | :2.000 | Median | :2.000 | Median | :3.000 | Median | :3.000 | | |
| Mean | :2.351 | Mean | :2.382 | Mean | :3.152 | Mean | :3.181 | | |
| 3rd Qu. | :3.000 | 3rd Qu. | :3.000 | 3rd Qu. | :5.000 | 3rd Qu. | :5.000 | | |
| Max. | :5.000 | Max. | :5.000 | Max. | :5.000 | Max. | :5.000 | | |
| NA's | :449 | NA's | :459 | NA's | :548 | NA's | :543 | | |
| Q8.2_23 | | Q8.2_24 | | Q9.1_1 | | Q9.1_2 | | | |
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | | |
| 1st Qu. | :2.000 | 1st Qu. | :2.000 | 1st Qu. | :1.000 | 1st Qu. | :1.000 | | |
| Median | :3.000 | Median | :3.000 | Median | :2.000 | Median | :2.000 | | |
| Mean | :3.212 | Mean | :3.223 | Mean | :2.206 | Mean | :2.111 | | |
| 3rd Qu. | :5.000 | 3rd Qu. | :5.000 | 3rd Qu. | :3.000 | 3rd Qu. | :3.000 | | |
| Max. | :5.000 | Max. | :5.000 | Max. | :4.000 | Max. | :4.000 | | |
| NA's | :556 | NA's | :549 | NA's | :1515 | NA's | :1511 | | |
| Q9.1_3 | | Q9.1_4 | | Q9.1_5 | | Q9.1_6 | | | |
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | | |
| 1st Qu. | :2.000 | 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :1.000 | | |
| Median | :2.000 | Median | :2.000 | Median | :2.000 | Median | :2.000 | | |
| Mean | :2.393 | Mean | :2.353 | Mean | :2.296 | Mean | :1.855 | | |
| 3rd Qu. | :3.000 | 3rd Qu. | :3.000 | 3rd Qu. | :3.000 | 3rd Qu. | :2.000 | | |
| Max. | :4.000 | Max. | :4.000 | Max. | :4.000 | Max. | :4.000 | | |
| NA's | :1512 | NA's | :1514 | NA's | :1512 | NA's | :1514 | | |
| Q9.1_7 | | Q9.1_8 | | Q9.1_9 | | Q9.1_10 | | | |
| Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | Min. | :1.000 | | |
| 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :1.000 | 1st Qu. | :2.000 | | |
| Median | :2.000 | Median | :2.000 | Median | :2.000 | Median | :3.000 | | |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| Mean :1.907 | Mean :1.943 | Mean :2.346 | Mean :2.724 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1511 | NA's :1517 | NA's :1513 | NA's :1513 | |
| Q9.1_11 | Q9.1_12 | Q9.1_13 | Q9.1_14 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.285 | Mean :2.016 | Mean :2.238 | Mean :1.799 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1519 | NA's :1513 | NA's :1510 | NA's :1518 | |
| Q9.1_15 | Q9.1_16 | Q9.1_17 | Q9.1_18 | Q9.1_19 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:2.00 | 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:2.000 |
| Median :2.000 | Median :2.00 | Median :2.000 | Median :2.00 | Median :3.000 |
| Mean :1.894 | Mean :2.47 | Mean :2.451 | Mean :1.84 | Mean :2.509 |
| 3rd Qu.:2.000 | 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:2.00 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.00 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1509 | NA's :1510 | NA's :1514 | NA's :1511 | NA's :1515 |
| Q9.1_20 | Q9.1_21 | Q9.1_22 | Q10.1_1 | Q10.1_2 |
| Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :1.00 | Median :2.000 | Median :2.000 |
| Mean :2.196 | Mean :1.981 | Mean :1.08 | Mean :2.312 | Mean :2.237 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:1.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 | Max. :4.000 |
| NA's :1514 | NA's :1515 | NA's :2328 | NA's :1495 | NA's :1502 |
| Q10.1_3 | Q10.1_4 | Q10.1_5 | Q10.1_6 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.422 | Mean :2.735 | Mean :2.702 | Mean :3.054 | |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1496 | NA's :1496 | NA's :1496 | NA's :1495 | |
| Q10.1_7 | Q10.1_8 | Q10.1_9 | Q10.1_10 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.159 | Mean :2.135 | Mean :1.927 | Mean :1.934 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| NA's :1494 | NA's :1495 | NA's :1496 | NA's :1494 | |
| Q10.1_11 | Q10.1_12 | Q10.1_13 | Q10.1_14 | Q10.1_15 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.00 |
| Median :2.000 | Median :3.000 | Median :3.000 | Median :2.000 | Median :2.00 |
| Mean :2.549 | Mean :2.919 | Mean :2.969 | Mean :2.394 | Mean :2.11 |
| 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.00 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 |
| NA's :1495 | NA's :1501 | NA's :1496 | NA's :1491 | NA's :1493 |
| Q10.1_16 | Q10.1_17 | Q10.1_18 | Q10.1_19 | Q10.1_20 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.00 | 1st Qu.:1.000 |
| Median :2.000 | Median :2.000 | Median :2.000 | Median :2.00 | Median :1.000 |
| Mean :2.065 | Mean :2.027 | Mean :2.112 | Mean :1.89 | Mean :1.821 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:2.00 | 3rd Qu.:2.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1499 | NA's :1503 | NA's :1497 | NA's :1495 | NA's :1498 |
| Q10.1_21 | Q10.1_22 | Q10.1_23 | Q10.1_24 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :1.000 | Median :2.000 | Median :2.000 | |
| Mean :2.148 | Mean :1.602 | Mean :2.203 | Mean :2.402 | |
| 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1498 | NA's :1495 | NA's :1495 | NA's :1497 | |
| Q10.1_25 | Q11.1_1 | Q11.1_2 | Q11.1_3 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.899 | Mean :3.047 | Mean :2.952 | Mean :2.951 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1498 | NA's :1470 | NA's :1476 | NA's :1475 | |
| Q11.1_4 | Q11.1_5 | Q11.1_6 | Q11.1_7 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | |
| Mean :2.952 | Mean :3.058 | Mean :3.241 | Mean :3.213 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1477 | NA's :1476 | NA's :1476 | NA's :1472 | |
| Q11.1_8 | Q11.1_9 | Q12.1_1 | Q12.1_2 | Q12.1_3 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1 | Min. :1.000 |

| | | | | |
|---------------|---------------|---------------|---------------|---------------|
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:1.000 | 1st Qu.:1 | 1st Qu.:1.000 |
| Median :3.000 | Median :3.000 | Median :1.000 | Median :2 | Median :1.000 |
| Mean :3.262 | Mean :2.977 | Mean :1.763 | Mean :2 | Mean :1.756 |
| 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:2.000 | 3rd Qu.:3 | 3rd Qu.:2.000 |
| Max. :5.000 | Max. :5.000 | Max. :4.000 | Max. :4 | Max. :4.000 |
| NA's :1475 | NA's :2284 | NA's :1494 | NA's :1496 | NA's :1496 |
| Q12.1_4 | Q12.1_5 | Q12.1_6 | Q12.1_7 | Q12.1_8 |
| Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.00 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 |
| Median :1.00 | Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 |
| Mean :1.71 | Mean :2.547 | Mean :3.006 | Mean :2.078 | Mean :2.661 |
| 3rd Qu.:2.00 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :4.00 | Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 |
| NA's :1501 | NA's :1493 | NA's :1495 | NA's :1497 | NA's :1494 |
| Q12.1_9 | Q12.1_10 | Q12.1_11 | Q12.1_12 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :2.000 | Median :2.000 | |
| Mean :2.399 | Mean :2.522 | Mean :2.229 | Mean :2.305 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1495 | NA's :1492 | NA's :1495 | NA's :1497 | |
| Q12.1_13 | Q12.1_14 | Q12.1_15 | Q12.1_16 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :2.000 | Median :3.000 | Median :3.000 | |
| Mean :1.837 | Mean :2.472 | Mean :2.676 | Mean :2.807 | |
| 3rd Qu.:2.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.000 | |
| NA's :1492 | NA's :1493 | NA's :1494 | NA's :1495 | |
| Q12.1_17 | Q12.1_18 | Q12.1_19 | Q12.1_20 | Q12.1_21 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.00 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.000 | Median :2.000 | Median :3.00 | Median :3.000 |
| Mean :2.651 | Mean :2.433 | Mean :2.254 | Mean :2.83 | Mean :2.672 |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.00 | 3rd Qu.:3.000 |
| Max. :4.000 | Max. :4.000 | Max. :4.000 | Max. :4.00 | Max. :4.000 |
| NA's :1494 | NA's :1493 | NA's :1493 | NA's :1496 | NA's :1499 |
| Q12.1_22 | Q12.1_23 | Q12.1_24 | Q13.1_1 | Q13.1_2 |
| Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :2.00 | Median :2.000 | Median :2.000 | Median :3.000 | Median :3.000 |
| Mean :2.11 | Mean :2.319 | Mean :2.185 | Mean :2.742 | Mean :2.914 |

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|---------------|---------------|---------------|---------------|---------------|
| 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :4.00 | Max. :4.000 | Max. :4.000 | Max. :5.000 | Max. :5.000 |
| NA's :1496 | NA's :1497 | NA's :1496 | NA's :1491 | NA's :1493 |
| Q13.1_3 | Q13.1_4 | Q13.1_5 | Q13.1_6 | Q13.1_7 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:2.00 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :2.000 | Median :2.00 | Median :3.000 | Median :3.000 | Median :3.000 |
| Mean :2.568 | Mean :2.57 | Mean :2.752 | Mean :2.924 | Mean :2.679 |
| 3rd Qu.:3.000 | 3rd Qu.:3.00 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 |
| Max. :5.000 | Max. :5.00 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :1494 | NA's :1495 | NA's :1491 | NA's :1492 | NA's :1494 |
| Q13.1_8 | Q13.1_9 | Q13.1_10 | Q13.1_11 | Q13.1_12 |
| Min. :1.000 | Min. :1.00 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| 1st Qu.:2.000 | 1st Qu.:1.00 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 |
| Median :3.000 | Median :2.00 | Median :2.000 | Median :2.000 | Median :2.000 |
| Mean :2.615 | Mean :2.33 | Mean :2.351 | Mean :2.417 | Mean :2.532 |
| 3rd Qu.:3.000 | 3rd Qu.:3.00 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 |
| Max. :5.000 | Max. :5.00 | Max. :5.000 | Max. :5.000 | Max. :5.000 |
| NA's :1491 | NA's :1496 | NA's :1491 | NA's :1496 | NA's :1495 |
| Q13.1_13 | Q13.1_14 | Q13.1_15 | Q13.1_16 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :2.000 | Median :2.000 | Median :2.000 | |
| Mean :2.597 | Mean :2.322 | Mean :2.406 | Mean :2.489 | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1490 | NA's :1488 | NA's :1496 | NA's :1492 | |
| Q13.1_17 | Q14.1_1 | Q14.1_2 | Q14.1_3 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | |
| Median :2.000 | Median :3.000 | Median :4.000 | Median :3.000 | |
| Mean :2.057 | Mean :2.927 | Mean :3.465 | Mean :2.682 | |
| 3rd Qu.:2.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :2304 | NA's :1497 | NA's :1500 | NA's :1500 | |
| Q14.1_4 | Q14.1_5 | Q14.1_6 | Q14.1_7 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:1.000 | 1st Qu.:2.000 | |
| Median :3.000 | Median :3.000 | Median :2.000 | Median :3.000 | |
| Mean :2.974 | Mean :2.702 | Mean :2.527 | Mean :3.008 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1497 | NA's :1499 | NA's :1498 | NA's :1498 | |

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|-------------------|-------------------|------------------|-------------------|--------------|
| Q14.1_8 | Q14.1_9 | Q14.1_10 | Q14.1_11 | Q14.1_12 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.00 |
| Median :3.000 | Median :3.000 | Median :3.000 | Median :3.000 | Median :3.00 |
| Mean :3.168 | Mean :2.667 | Mean :2.676 | Mean :3.228 | Mean :2.64 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.00 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 |
| NA's :1500 | NA's :1499 | NA's :1496 | NA's :1496 | NA's :1500 |
| Q15.1_1 | Q15.1_2 | Q15.1_3 | Q15.1_4 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:4.000 | 1st Qu.:3.000 | |
| Median :4.000 | Median :3.000 | Median :4.000 | Median :4.000 | |
| Mean :3.713 | Mean :3.346 | Mean :3.863 | Mean :3.693 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1471 | NA's :1468 | NA's :1468 | NA's :1465 | |
| Q15.1_5 | Q15.1_6 | Q15.1_7 | Q15.1_8 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | |
| 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | 1st Qu.:3.000 | |
| Median :4.000 | Median :4.000 | Median :3.000 | Median :4.000 | |
| Mean :3.777 | Mean :3.664 | Mean :3.348 | Mean :3.525 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:4.000 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | |
| NA's :1464 | NA's :1466 | NA's :1468 | NA's :1466 | |
| Q15.1_9 | Q16.1_1 | Q16.1_2 | Q16.1_3 | Q16.1_4 |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :1.00 |
| 1st Qu.:4.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:2.000 | 1st Qu.:2.00 |
| Median :4.000 | Median :4.000 | Median :2.000 | Median :2.000 | Median :3.00 |
| Mean :3.949 | Mean :3.771 | Mean :2.289 | Mean :2.481 | Mean :2.63 |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:3.000 | 3rd Qu.:4.00 |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :5.00 |
| NA's :2285 | NA's :1485 | NA's :1487 | NA's :1489 | NA's :1487 |
| Q16.1_5 | Q16.1_6 | Q16.1_7 | Q17.1 | |
| Min. :1.000 | Min. :1.000 | Min. :1.000 | Min. :0.000e+00 | |
| 1st Qu.:2.000 | 1st Qu.:3.000 | 1st Qu.:2.000 | 1st Qu.:4.000e+00 | |
| Median :3.000 | Median :4.000 | Median :2.000 | Median :8.000e+00 | |
| Mean :2.876 | Mean :3.587 | Mean :2.609 | Mean :7.894e+05 | |
| 3rd Qu.:4.000 | 3rd Qu.:4.000 | 3rd Qu.:3.000 | 3rd Qu.:8.000e+00 | |
| Max. :5.000 | Max. :5.000 | Max. :5.000 | Max. :1.552e+09 | |
| NA's :1486 | NA's :1485 | NA's :1486 | NA's :1575 | |
| Q17.2 | Q17.3 | Q18.1 | crt_check1 | |
| Min. :0.000e+00 | Min. :0.000e+00 | Length:12570 | Min. : | 0 |
| 1st Qu.:1.000e+01 | 1st Qu.:2.000e+01 | Class :character | 1st Qu.: | 2 |

| | | | |
|-------------------|-------------------|-----------------|---------------|
| Median :5.000e+01 | Median :2.000e+01 | Mode :character | Median : 2 |
| Mean :9.665e+04 | Mean :5.038e+07 | | Mean : 622 |
| 3rd Qu.:5.000e+01 | 3rd Qu.:3.900e+01 | | 3rd Qu.: 3 |
| Max. :1.061e+09 | Max. :5.498e+11 | | Max. :6767674 |
| NA's :1579 | NA's :1599 | | NA's :1645 |

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| crt_check2 | do_block_crt | do_block_big | do_q_crt_1 |
| Length:12570 | Min. :1.000 | Min. :1.000 | Min. :1.000 |
| Class :character | 1st Qu.:1.000 | 1st Qu.:1.000 | 1st Qu.:1.000 |
| Mode :character | Median :1.000 | Median :2.000 | Median :2.000 |
| | Mean :1.489 | Mean :1.504 | Mean :1.987 |
| | 3rd Qu.:2.000 | 3rd Qu.:2.000 | 3rd Qu.:3.000 |
| | Max. :2.000 | Max. :2.000 | Max. :3.000 |
| | NA's :1428 | NA's :1597 | NA's :3442 |

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| do_q_crt_2 | do_q_crt_3 | math_edu_type | math_edu_type_other |
| Min. :1.000 | Min. :1.000 | Length:12570 | Length:12570 |
| 1st Qu.:1.000 | 1st Qu.:1.000 | Class :character | Class :character |
| Median :2.000 | Median :2.000 | Mode :character | Mode :character |
| Mean :1.995 | Mean :2.018 | | |
| 3rd Qu.:3.000 | 3rd Qu.:3.000 | | |
| Max. :3.000 | Max. :3.000 | | |
| NA's :3442 | NA's :3442 | | |

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|------------------|------------------|------------------|----------------------|
| math_edu_grade | math_edu_mths | math_edu_level | math_edu_level_other |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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|---------------------|---------------------------|-------------------------|
| math_edu_grade_yr10 | math_edu_grade_yr11_entry | math_edu_grade_yr11_int |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_yr11_adv | math_edu_grade_other | math_edu_mths_yr10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|------------------------|------------------------|
| math_edu_mths_yr11_entry | math_edu_mths_yr11_int | math_edu_mths_yr11_adv |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|---------------------|------------------------|------------------------|
| math_edu_mths_other | math_edu_primary_level | math_edu_grade_grade10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------|------------------------|-----------------------|
| math_edu_grade_grade11 | math_edu_grade_grade12 | math_edu_mths_grade10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-----------------------|-----------------------|--------------------------|
| math_edu_mths_grade11 | math_edu_mths_grade12 | math_edu_grade12_course1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|--------------------------|--------------------------|
| math_edu_grade12_course2 | math_edu_grade12_course3 | math_edu_grade12_course4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

math_edu_grade12_course5 math_edu_grade12_course6 math_edu_grade12_course7

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| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade12_course8 | math_edu_grade12_course7_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade12_course8_specify | math_edu_grade_grade10a |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_grade11a | math_edu_grade_grade12_course1 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|--------------------------------|--------------------------------|
| math_edu_grade_grade12_course2 | math_edu_grade_grade12_course3 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_grade12_course4 | math_edu_grade_grade12_course5 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_grade12_course6 | math_edu_grade_grade12_course7 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|--------------------------------|------------------------|------------------------|
| math_edu_grade_grade12_course8 | math_edu_mths_grade10a | math_edu_mths_grade11a |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------------------|-------------------------------|
| math_edu_mths_grade12_course1 | math_edu_mths_grade12_course2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------------|-------------------------------|
| math_edu_mths_grade12_course3 | math_edu_mths_grade12_course4 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------------|-------------------------------|
| math_edu_mths_grade12_course5 | math_edu_mths_grade12_course6 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------------|-------------------------------|
| math_edu_mths_grade12_course7 | math_edu_mths_grade12_course8 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------|-------------------------|------------------------|
| math_edu_grade_grade10b | math_edu_grade_grade11b | math_edu_mths_grade10b |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------|-------------------------|------------------------|
| math_edu_mths_grade11b | math_edu_grade_grade10c | math_edu_mths_grade10c |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|-------------------------|--------------------------|
| math_edu_pre_uni_course1 | math_edu_pre_uni_grade1 | math_edu_pre_uni_course2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------------|--------------------------|-------------------------|
| math_edu_pre_uni_grade2 | math_edu_pre_uni_course3 | math_edu_pre_uni_grade3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------------|-------------------------|------------------------|
| math_edu_pre_uni_course4 | math_edu_pre_uni_grade4 | math_edu_pre_uni_mths1 |
| Length:12570 | Length:12570 | Length:12570 |

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| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|------------------------|------------------------|------------------------|
| math_edu_pre_uni_mths2 | math_edu_pre_uni_mths3 | math_edu_pre_uni_mths4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|---------------------|-------------------------|------------------------|
| math_edu_grade_gcse | math_edu_grade_as_level | math_edu_grade_a_level |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------|------------------------|-----------------------|
| math_edu_mths_gcse | math_edu_mths_as_level | math_edu_mths_a_level |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------------|---------------------------------|
| math_edu_grade_jnr_cert | math_edu_grade_leaving_cert_app |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-----------------------------|------------------------|
| math_edu_grade_leaving_cert | math_edu_mths_jnr_cert |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|--------------------------------|----------------------------|
| math_edu_mths_leaving_cert_app | math_edu_mths_leaving_cert |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------|-----------------------|---------------------------|
| math_edu_grade_standard | math_edu_grade_higher | math_edu_grade_adv_higher |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------|----------------------|--------------------------|
| math_edu_mths_standard | math_edu_mths_higher | math_edu_mths_adv_higher |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|--------------------|--------------------|-------------------|-------------------|
| math_edu_grade_act | math_edu_grade_sat | math_edu_type_act | math_edu_type_sat |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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|--------------------|-----------------------|-------------------|-------------------|
| math_edu_type_none | math_edu_type_specify | math_edu_mths_act | math_edu_mths_sat |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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|-------------------------------|-------------------------------|
| math_edu_grade_vwo_wiskunde_a | math_edu_grade_vwo_wiskunde_b |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-------------------------------|------------------------------|
| math_edu_grade_vwo_wiskunde_c | math_edu_grade_wiskundetoets |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|------------------------------|------------------------------|
| math_edu_grade_abitur_matura | math_edu_mths_vwo_wiskunde_a |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|------------------------------|------------------------------|
| math_edu_mths_vwo_wiskunde_b | math_edu_mths_vwo_wiskunde_c |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|-----------------------------|-----------------------------|
| math_edu_mths_wiskundetoets | math_edu_mths_abitur_matura |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|------------------------------|------------------------------|
| maths_edu_grade_10th_std_scc | maths_edu_grade_12th_std_hsc |
| Length:12570 | Length:12570 |
| Class :character | Class :character |

Mode :character Mode :character

maths_edu_mths_10th_std_scc maths_edu_mths_12th_std_hsc
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

math_edu_grade_olevel_spm math_edu_mths_o_level_spm math_edu_mths_uec_stpm_etc
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

math_edu_grade_high_school math_edu_grade_senior_high
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

math_edu_mths_high_school math_edu_mths_senior_high math_edu_grade_mittlere
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

math_edu_grade_matura_abitur math_edu_mths_mittlere
Length:12570 Length:12570
Class :character Class :character
Mode :character Mode :character

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|-----------------------------|------------------------------|
| math_edu_mths_matura_abitur | math_edu_uni_entrance_option |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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|------------------------|------------------|-------------------------------|
| math_edu_bacc_modality | math_edu_yrs | math_edu_grade_hochschulreife |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_hochschulreife | math_edu_grade_brevet_colleges |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_baccalaureate | math_edu_mths_brevet_colleges |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_mths_baccalaureate | math_edu_grade_cess | math_edu_mths_cess |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_take_enem | math_edu_grade_enem | math_edu_year_emen | math_edu_no_years |
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| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| math_edu_grade_liseye | math_edu_grade_universiteye | math_edu_mths_liseye |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_universiteye | math_edu_grade_lai | math_edu_grade_kitsas |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_uldine | math_edu_mths_lai | math_edu_mths_kitsas |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_uldine | math_edu_grade_total | math_edu_grade_erettsegi |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_emelt_szintu | math_edu_mths_erettsegi | math_edu_mths_emelt_szintu |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_zdravstvena | math_edu_mths_zdravstvena | math_edu_mths_gimnazija |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_srednjoj_skoli | math_edu_grade_fakultativni |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_obavezni | math_edu_mths_srednjoj_skoli |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_mths_fakultativni | math_edu_mths_obavezni | math_edu_grade_podstawowy |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_rozszerzony | math_edu_mths_podstawowy | math_edu_mths_rozszerzony |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_capacitate | math_edu_grade_bacalaureat | math_edu_mths_capacitate |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_bacalaureat | math_edu_grade_maturita |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_strednej_skole | math_edu_mths_maturita |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_mths_strednej_skole | math_edu_grade_lower | math_edu_grade_general |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_lower | math_edu_mths_general | math_edu_units_matriculation |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_matriculation | math_edu_yrsmths_matriculation |
| Length:12570 | Length:12570 |

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| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_psychometric | math_edu_grade_psychometric |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_yrsmths_psychometric | math_edu_grade_secondary |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| math_edu_grade_undergrad | math_edu_mths_secondary | math_edu_mths_undergrad |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_grade_gymnasio | math_edu_grade_lykeion | math_edu_mths_gymnasio |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_lykeion | math_edu_grade_sta | math_edu_grade_external |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| math_edu_mths_sta | math_edu_mths_external | stats_edu_first_module |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_module_1 | stats_edu_module_2 | stats_edu_module_3 | stats_edu_module_4 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| stats_edu_module_5 | stats_edu_module_6 | stats_edu_module_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade | stats_edu_grade_1 | stats_edu_grade_2 | stats_edu_grade_3 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| stats_edu_grade_4 | stats_edu_grade_5 | stats_edu_grade_6 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade_baskent_1 | stats_edu_grade_baskent_2 | stats_edu_grade_edited |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade_1_edited | stats_edu_grade_2_edited | stats_edu_grade_3_edited |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade_4_edited | stats_edu_grade_5_edited | stats_edu_grade_6_edited |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| stats_edu_grade_data_type | all_stats_modules | is_university |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| is_stats_module | average_overall_grade | is_stats_module_code |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| mod_start_date | mod_end_date | software_excel | software_jamovi |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |

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| Mode :character | Mode :character | Mode :character | Mode :character |
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| software_jasp | software_r | software_sas | software_spss_amos |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| software_spss_stats | software_none | software_other | software_specify |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| freq_or_bayes | topic_covariates | topic_algebra | topic_anova |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_bayes_factors | topic_bayes_theorem | topic_bootstrapping | topic_calculus |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_casual_inference | topic_causality | topic_conf_ints |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|----------------------|------------------|---------------------|
| topic_correlation | topic_data_wrangling | topic_data_vis | topic_distributions |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_descriptive_stats | topic_effect_sizes | topic_exp_design |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| topic_factor_analysis | topic_moderation | topic_linear_models |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| topic_logistic_reg | topic_mediation | topic_meta_analysis | topic_assumptions |
| Length:12570 | Length:12570 | Mode:logical | Length:12570 |
| Class :character | Class :character | NA's:12570 | Class :character |
| Mode :character | Mode :character | | Mode :character |

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| topic_multi_comparisons | topic_multi_regression | topic_non_para |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| topic_nhst | topic_ols | topic_open_science | topic_philosophy |
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| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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|-------------------|---------------------|------------------|-------------------|
| topic_probability | topic_psychometrics | topic_qual | topic_reliability |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_regression | topic_rep_crisis | topic_report_writing | topic_robust_tests |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_power | topic_software | topic_ttest | topic_other_a |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_other_b | topic_other_c | topic_other_d | topic_specify_a |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| topic_specify_b | topic_specify_c | topic_specify_d | instructor_type |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| instructor_type_main_specify | instructor_type_other_specify | in_person_percent |
| Length:12570 | Length:12570 | Min. : 0.00 |
| Class :character | Class :character | 1st Qu.: 10.00 |
| Mode :character | Mode :character | Median : 40.00 |
| | | Mean : 43.71 |
| | | 3rd Qu.: 75.00 |
| | | Max. :100.00 |
| | | NA's :9163 |

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| in_person_reduction | teaching_mode_lectures | teaching_mode_practicals |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| teaching_mode_seminars | teaching_mode_other_a | teaching_mode_other_b |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| teaching_mode_specify_a | teaching_mode_specify_b | hrs_pw_lectures |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| hrs_pw_practicals | hrs_pw_seminars | hrs_pw_other_a | hrs_pw_other_b |
| Length:12570 | Length:12570 | Length:12570 | Min. :0.750 |
| Class :character | Class :character | Class :character | 1st Qu.:1.000 |
| Mode :character | Mode :character | Mode :character | Median :1.000 |
| | | | Mean :0.967 |
| | | | 3rd Qu.:1.000 |
| | | | Max. :1.000 |

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| | | NA's | :12509 |
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| in_person_lectures | in_person_lectures_specify | sync_lectures |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| sync_lectures_specify | in_person_practicals | in_person_practicals_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| in_person_seminars | in_person_seminars_specify | in_person_other_a |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

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| in_person_other_a_specify | in_person_other_b | in_person_other_b_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| assess_type_final_exam | assess_type_take_away_paper | assess_type_coursework |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| assess_type_regular_testing | assess_type_attendance | assess_type_other_a |
| Length:12570 | Length:12570 | Length:12570 |

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| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| assess_type_other_b | assess_type_other_c | assess_type_other_a_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-----------------------------|-----------------------------|
| assess_type_other_b_specify | assess_type_other_c_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

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| assess_percent_final_exam | assess_percent_take_away_paper | |
| Min. : 25.00 | Min. : 0.00 | |
| 1st Qu.: 30.00 | 1st Qu.: 16.00 | |
| Median : 50.00 | Median : 40.00 | |
| Mean : 55.93 | Mean : 33.05 | |
| 3rd Qu.: 75.00 | 3rd Qu.: 40.00 | |
| Max. :100.00 | Max. :100.00 | |
| NA's :9540 | NA's :11976 | |
| assess_percent_coursework | assess_percent_regular_testing | |
| Min. : 0.00 | Min. : 0.00 | |
| 1st Qu.: 30.00 | 1st Qu.:20.00 | |
| Median : 40.00 | Median :35.00 | |
| Mean : 45.11 | Mean :34.62 | |
| 3rd Qu.: 50.00 | 3rd Qu.:50.00 | |
| Max. :100.00 | Max. :70.00 | |
| NA's :9322 | NA's :9584 | |
| assess_percent_attendance | assess_percent_other_a | assess_percent_other_b |
| Min. : 0.000 | Min. : 0.00 | Min. : 2.500 |
| 1st Qu.: 0.000 | 1st Qu.: 5.00 | 1st Qu.: 2.500 |
| Median : 0.000 | Median :10.00 | Median : 5.000 |
| Mean : 2.853 | Mean :20.94 | Mean : 8.114 |

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| 3rd Qu.: 5.000 | 3rd Qu.:25.00 | 3rd Qu.:10.000 |
| Max. :25.000 | Max. :70.00 | Max. :30.000 |
| NA's :11932 | NA's :11331 | NA's :12289 |

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| assess_percent_other_c | no_of_exams | length_exam_single | date_exam_single |
| Min. : 0.00 | Min. : 1.0 | Min. : 6.00 | Length:12570 |
| 1st Qu.:20.00 | 1st Qu.: 1.0 | 1st Qu.: 75.00 | Class :character |
| Median :27.50 | Median : 1.0 | Median :100.00 | Mode :character |
| Mean :23.34 | Mean : 14.2 | Mean : 95.18 | |
| 3rd Qu.:27.50 | 3rd Qu.: 1.0 | 3rd Qu.:120.00 | |
| Max. :27.50 | Max. :400.0 | Max. :180.00 | |
| NA's :12404 | NA's :9610 | NA's :10226 | |

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| in_person_exam_single | in_person_exam_single_specify | scale_exam_single |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

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| scale_exam_single_yes_specify | scale_exam_single_no_specify | length_exam_multi1 |
| Length:12570 | Length:12570 | Min. : 45.0 |
| Class :character | Class :character | 1st Qu.: 90.0 |
| Mode :character | Mode :character | Median : 90.0 |
| | | Mean :102.4 |
| | | 3rd Qu.:120.0 |
| | | Max. :150.0 |
| | | NA's :12064 |

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| length_exam_multi2 | length_exam_multi3 | length_exam_multi4 | date_exam_multi1 |
| Min. : 15.00 | Min. : 90.00 | Min. : 90.00 | Length:12570 |
| 1st Qu.: 30.00 | 1st Qu.: 90.00 | 1st Qu.: 90.00 | Class :character |
| Median : 90.00 | Median : 90.00 | Median : 90.00 | Mode :character |
| Mean : 75.68 | Mean : 99.94 | Mean : 99.94 | |
| 3rd Qu.:100.00 | 3rd Qu.:120.00 | 3rd Qu.:120.00 | |
| Max. :120.00 | Max. :120.00 | Max. :120.00 | |
| NA's :12160 | NA's :12398 | NA's :12398 | |

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| date_exam_multi2 | date_exam_multi3 | date_exam_multi4 | in_person_exam_multi1 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

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| in_person_exam_multi2 | in_person_exam_multi3 | in_person_exam_multi4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|-------------------------------|------------------------------|
| scale_exam_multi1 | scale_exam_multi1_yes_specify | scale_exam_multi1_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_exam_multi2 | scale_exam_multi2_yes_specify | scale_exam_multi2_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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| scale_exam_multi3 | scale_exam_multi3_yes_specify | scale_exam_multi3_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

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|-------------------|-------------------------------|------------------------------|
| scale_exam_multi4 | scale_exam_multi4_yes_specify | scale_exam_multi4_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|--------------------|-----------------------|-------------------------------|
| no_types_reg_tests | freq_reg_tests_single | freq_reg_tests_single_specify |
| Min. : 1.000 | Length:12570 | Length:12570 |
| 1st Qu.: 1.000 | Class :character | Class :character |

```

Median : 2.000      Mode :character      Mode :character
Mean   : 2.872
3rd Qu.: 3.000
Max.   :17.000
NA's   :9654
format_reg_tests_single format_reg_tests_single_cwk_specify
Length:12570          Length:12570
Class :character      Class :character
Mode  :character      Mode  :character

```

```

timed_reg_tests_single time_reg_tests_single all_marks_reg_tests_single
Length:12570          Length:12570          Length:12570
Class :character      Class :character      Class :character
Mode  :character      Mode  :character      Mode  :character

```

```

all_marks_reg_tests_single_no_specify all_marks_reg_tests_single_other_specify
Length:12570                          Mode:logical
Class :character                      NA's:12570
Mode  :character

```

```

scale_reg_tests_single scale_reg_tests_single_yes_specify
Length:12570          Length:12570
Class :character      Class :character
Mode  :character      Mode  :character

```

```

scale_reg_tests_single_no_specify format_reg_tests_multi1
Length:12570          Length:12570
Class :character      Class :character
Mode  :character      Mode  :character

```

| | |
|-------------------------------------|-----------------------|
| format_reg_tests_multi1_cwk_specify | freq_reg_tests_multi1 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | | |
|-------------------------------|------------------------|-----------------------|
| freq_reg_tests_multi1_specify | timed_reg_tests_multi1 | time_reg_tests_multi1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | |
|----------------------------|---------------------------------------|
| all_marks_reg_tests_multi1 | all_marks_reg_tests_multi1_no_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|-------------------------|-------------------------------------|
| format_reg_tests_multi2 | format_reg_tests_multi2_cwk_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | | |
|-----------------------|-------------------------------|------------------------|
| freq_reg_tests_multi2 | freq_reg_tests_multi2_specify | timed_reg_tests_multi2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

time_reg_tests_multi2 all_marks_reg_tests_multi2

| | |
|------------------|------------------|
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|---------------------------------------|--|
| all_marks_reg_tests_multi2_no_specify | all_marks_reg_tests_multi2_other_specify |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | | | |
|------------------|------------------------------|-----------------------------|---------------------|
| no_of_taps | time_taps_single | start_date_tap_single | end_date_tap_single |
| Min. :1.000 | Length:12570 | Length:12570 | Length:12570 |
| 1st Qu.:1.000 | Class :character | Class :character | Class :character |
| Median :1.000 | Mode :character | Mode :character | Mode :character |
| Mean :1.483 | | | |
| 3rd Qu.:1.000 | | | |
| Max. :4.000 | | | |
| NA's :12046 | | | |
| scale_tap_single | scale_tap_single_yes_specify | scale_tap_single_no_specify | |
| Length:12570 | Length:12570 | Length:12570 | |
| Class :character | Class :character | Class :character | |
| Mode :character | Mode :character | Mode :character | |

| | | | |
|------------------|------------------|------------------|------------------|
| time_taps_multi1 | time_taps_multi2 | time_taps_multi3 | time_taps_multi4 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|-----------------------|-----------------------|-----------------------|
| start_date_tap_multi1 | start_date_tap_multi2 | start_date_tap_multi3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|-----------------------|---------------------|---------------------|
| start_date_tap_multi4 | end_date_tap_multi1 | end_date_tap_multi2 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|---------------------|---------------------|------------------|
| end_date_tap_multi3 | end_date_tap_multi4 | scale_tap_multi1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|------------------|------------------------------|
| scale_tap_multi1_yes_specify | scale_tap_multi2 | scale_tap_multi2_yes_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------|------------------------------|------------------|
| scale_tap_multi3 | scale_tap_multi3_yes_specify | scale_tap_multi4 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|----------------|-------------------|
| scale_tap_multi4_yes_specify | no_of_cwk | format_cwk_single |
| Length:12570 | Min. : 1.000 | Length:12570 |
| Class :character | 1st Qu.: 1.000 | Class :character |
| Mode :character | Median : 2.000 | Mode :character |
| | Mean : 3.791 | |
| | 3rd Qu.: 3.000 | |
| | Max. : 39.000 | |

| | | |
|----------------------------------|---------------------------------|------------------------------|
| NA's :9400 | | |
| format_cwk_single_report_specify | format_cwk_single_other_specify | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |
| | | |
| deadline_cwk_single | scale_cwk_single | scale_cwk_single_yes_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |
| | | |
| scale_cwk_single_no_specify | format_cwk_multi1_full_report | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |
| | | |
| format_cwk_multi2_full_report | format_cwk_multi3_full_report | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |
| | | |
| format_cwk_multi4_full_report | format_cwk_multi5_full_report | |
| Length:12570 | Length:12570 | |
| Class :character | Class :character | |
| Mode :character | Mode :character | |
| | | |
| format_cwk_multi6_full_report | format_cwk_multi7_full_report | |
| Length:12570 | Length:12570 | |

| | |
|------------------|------------------|
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|-------------------------------|-------------------------------|
| format_cwk_multi8_full_report | format_cwk_multi9_full_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|----------------------------------|----------------------------------|
| format_cwk_multi1_partial_report | format_cwk_multi2_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|----------------------------------|----------------------------------|
| format_cwk_multi3_partial_report | format_cwk_multi4_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|----------------------------------|-----------------------------------|
| format_cwk_multi5_partial_report | format_cwk_multi10_partial_report |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|----------------------------|----------------------------|
| format_cwk_multi1_proposal | format_cwk_multi2_proposal |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | | |
|----------------------------|--------------------------|--------------------------|
| format_cwk_multi8_proposal | format_cwk_multi1_other1 | format_cwk_multi2_other1 |
| Mode:logical | Length:12570 | Length:12570 |
| NA's:12570 | Class :character | Class :character |
| | Mode :character | Mode :character |

| | | |
|--------------------------|--------------------------|--------------------------|
| format_cwk_multi3_other1 | format_cwk_multi4_other1 | format_cwk_multi5_other1 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | |
|---------------------------------|--------------------------|
| format_cwk_multi_other1_specify | format_cwk_multi1_other2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|--------------------------|--------------------------|
| format_cwk_multi2_other2 | format_cwk_multi3_other2 |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |

| | |
|---------------------------------|--------------------------|
| format_cwk_multi_other2_specify | format_cwk_multi6_other3 |
| Length:12570 | Mode:logical |
| Class :character | NA's:12570 |
| Mode :character | |

| | |
|---------------------------------|--------------------------|
| format_cwk_multi_other3_specify | format_cwk_multi7_other4 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

| | |
|---------------------------------|--------------------------|
| format_cwk_multi_other4_specify | format_cwk_multi9_other5 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

| | |
|---------------------------------|---------------------------|
| format_cwk_multi_other5_specify | format_cwk_multi10_other6 |
| Mode:logical | Mode:logical |
| NA's:12570 | NA's:12570 |

| | | |
|---------------------------------|---------------------|---------------------|
| format_cwk_multi_other6_specify | deadline_cwk_multi1 | deadline_cwk_multi2 |
| Mode:logical | Length:12570 | Length:12570 |
| NA's:12570 | Class :character | Class :character |
| | Mode :character | Mode :character |

| | | |
|---------------------|---------------------|---------------------|
| deadline_cwk_multi3 | deadline_cwk_multi4 | deadline_cwk_multi5 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|---------------------|---------------------|---------------------|
| deadline_cwk_multi6 | deadline_cwk_multi7 | deadline_cwk_multi8 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |

Mode :character Mode :character Mode :character

deadline_cwk_multi9 deadline_cwk_multi10 scale_cwk_multi1
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

scale_cwk_multi1_yes_specify scale_cwk_multi1_no_specify scale_cwk_multi2
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

scale_cwk_multi2_yes_specify scale_cwk_multi2_no_specify scale_cwk_multi3
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

scale_cwk_multi3_yes_specify scale_cwk_multi3_no_specify scale_cwk_multi4
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

scale_cwk_multi4_yes_specify scale_cwk_multi4_no_specify scale_cwk_multi5
Length:12570 Length:12570 Length:12570
Class :character Class :character Class :character
Mode :character Mode :character Mode :character

| | | |
|------------------------------|-----------------------------|------------------|
| scale_cwk_multi5_yes_specify | scale_cwk_multi5_no_specify | scale_cwk_multi6 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|-----------------------------|------------------|
| scale_cwk_multi6_yes_specify | scale_cwk_multi6_no_specify | scale_cwk_multi7 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|-----------------------------|------------------|
| scale_cwk_multi7_yes_specify | scale_cwk_multi7_no_specify | scale_cwk_multi8 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|-----------------------------|------------------|
| scale_cwk_multi8_yes_specify | scale_cwk_multi8_no_specify | scale_cwk_multi9 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|-----------------------------|-------------------|
| scale_cwk_multi9_yes_specify | scale_cwk_multi9_no_specify | scale_cwk_multi10 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------------------|--------------|-------------|
| scale_cwk_multi10_no_specify | tasks_other1 | date_other1 |
|------------------------------|--------------|-------------|

| | | |
|------------------|------------------|------------------|
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|------------------|--------------------------|-------------------------|
| scale_other1 | scale_other1_yes_specify | scale_other1_no_specify |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | | |
|------------------|------------------|------------------|------------------|
| info_other1 | tasks_other2 | date_other2 | scale_other2 |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | | |
|--------------------------|-------------------------|------------------|
| scale_other2_yes_specify | scale_other2_no_specify | info_other2 |
| Length:12570 | Mode:logical | Length:12570 |
| Class :character | NA's:12570 | Class :character |
| Mode :character | | Mode :character |

| | | |
|------------------|------------------|------------------|
| tasks_other3 | date_other3 | scale_other3 |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|--------------------------|-------------------------|------------------------------|
| scale_other3_yes_specify | scale_other3_no_specify | summative_instructor_written |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | |
|-----------------------------|----------------------------|------------------------|
| summative_instructor_verbal | summative_instructor_grade | summative_peer_written |
| Length:12570 | Length:12570 | Mode:logical |
| Class :character | Class :character | NA's:12570 |
| Mode :character | Mode :character | |

| | | |
|-----------------------|----------------------|------------------|
| summative_peer_verbal | summative_peer_grade | summative_none |
| Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character |

| | | | |
|------------------|-------------------|------------------|------------------|
| additional_info | grade_module_name | grade | grade_low |
| Length:12570 | Length:12570 | Length:12570 | Length:12570 |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character | Mode :character | Mode :character | Mode :character |

| | |
|------------------|----------------------|
| grade_high | grade_category_notes |
| Length:12570 | Length:12570 |
| Class :character | Class :character |
| Mode :character | Mode :character |