Pananaw at Dalas rstats

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### Pamagat

Kaugnayan ng Pananaw at Dalas ng Paggamit ng Wikang Iloko sa Kahusayan sa Pagtuturo ng MTB-MLE

### Paglalahad ng Layunin

Ang pananaliksik na ito ay ay naglalayong matugunan at mapagtuunan ng pansin ang mga sumusunod na layunin:

1. Matukoy ang pananaw ng mga piling guro sa gamit ng Wikang Iloko sa pagtuturo ng MTB-MLE.
2. Matukoy ang antas sa paggamit ng Wikang Iloko ng mga piling guro sa pagtuturo ng MTB-MLE.
3. Matukoy ang pananaw at antas ng paggamit ng Wikang Iloko ng piling guro sa pagtuturo ng MTB-MLE.
4. Matukoy ang kaugnayan ng ng pananaw sa kahusayan sa pagtuturo ng MTB-MLE.
5. Matukoy ang kaugnay ng antas ng paggamit ng Wikang Iloko sa kahusayan sa pagtuturo ng MTB-MLE.

### Notes

1. Negative statements, pananaw
   * 8, 9, 10, 11, 12, 13,
2. Negative statements, dalas
   * 10

### Load Libraries

library(tidyverse)

── Attaching core tidyverse packages ──────────────────────── tidyverse 2.0.0 ──  
✔ dplyr 1.1.2 ✔ readr 2.1.4  
✔ forcats 1.0.0 ✔ stringr 1.5.0  
✔ ggplot2 3.4.2 ✔ tibble 3.2.1  
✔ lubridate 1.9.2 ✔ tidyr 1.3.0  
✔ purrr 1.0.1   
── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
✖ dplyr::filter() masks stats::filter()  
✖ dplyr::lag() masks stats::lag()  
ℹ Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors

library(readxl)  
library(gt)

### Import Data

pandal <- read\_excel("data/pandal.xlsx")  
pandal <- tibble(pandal)

### Re code Negative Statements

pandal <- pandal |>  
 mutate\_at(vars(p8:p13, d10), list(~case\_when(  
 . == 4 ~ 1,  
 . == 3 ~ 2,  
 . == 2 ~ 3,  
 . == 1 ~ 4  
 )))

### Row Wise Mean and SD for P and D

pandal <- pandal |>  
 rowwise() |>  
 mutate(p\_mean = mean((c\_across(p1:p15)))) |>  
 mutate(p\_sd = sd((c\_across(p1:p15)))) |>  
 mutate(d\_mean = mean((c\_across(d1:d15)))) |>  
 mutate(d\_sd = sd((c\_across(d1:d15)))) |>  
 ungroup()

### Descriptive Statistics of Profile

pandal |>  
 select(edad, btp1, btp2, p\_mean, d\_mean, p\_sd, d\_sd) |>  
 summary()

edad btp1 btp2 p\_mean   
 Min. :26.00 Min. : 4.00 Min. :1.000 Min. :1.800   
 1st Qu.:42.00 1st Qu.:11.00 1st Qu.:4.000 1st Qu.:1.867   
 Median :48.00 Median :14.00 Median :7.000 Median :2.200   
 Mean :45.77 Mean :16.92 Mean :5.583 Mean :2.246   
 3rd Qu.:49.00 3rd Qu.:22.00 3rd Qu.:7.000 3rd Qu.:2.467   
 Max. :60.00 Max. :34.00 Max. :7.000 Max. :3.200   
 NA's :1   
 d\_mean p\_sd d\_sd   
 Min. :1.467 Min. :0.4140 Min. :0.2582   
 1st Qu.:2.067 1st Qu.:0.5164 1st Qu.:0.4577   
 Median :2.267 Median :0.6761 Median :0.6399   
 Mean :2.195 Mean :0.7250 Mean :0.6525   
 3rd Qu.:2.400 3rd Qu.:0.7746 3rd Qu.:0.8281   
 Max. :2.667 Max. :1.3522 Max. :1.0601

pandal |>  
 select(edad, btp1, btp2,) |>  
 drop\_na() |>  
 summarise\_if(is.numeric, sd)

# A tibble: 1 × 3  
 edad btp1 btp2  
 <dbl> <dbl> <dbl>  
1 9.31 9.64 2.23

pandal |>  
 group\_by(etnisidad)|>  
 summarise(no = n()) |>  
 mutate(per = no/13)

# A tibble: 6 × 3  
 etnisidad no per  
 <chr> <int> <dbl>  
1 balangao 1 0.0769  
2 gaddang 1 0.0769  
3 ilokano 4 0.308   
4 kalanguya 1 0.0769  
5 pilipino 1 0.0769  
6 wala 5 0.385

pandal |>  
 group\_by(kasarian)|>  
 summarise(no = n()) |>  
 mutate(per = no/13)

# A tibble: 1 × 3  
 kasarian no per  
 <chr> <int> <dbl>  
1 female 13 1

### Data for Pananaw

pan1 <- pandal |>  
 select(p1:p15) |>  
 summarise\_if(is.numeric, mean) |>  
 rowwise() |>  
 mutate(po\_mean = mean((c\_across(p1:p15)))) |>  
 pivot\_longer(cols = everything(), names\_to = "pananaw",  
 values\_to = "mean")  
  
pan2 <- pandal |>  
 select(p1:p15) |>  
 summarise\_if(is.numeric, sd) |>  
 rowwise() |>  
 mutate(po\_sd = sd((c\_across(p1:p15)))) |>  
 pivot\_longer(cols = everything(), names\_to = "pananaw",  
 values\_to = "sd") |>  
 select(sd)  
  
pan3 <- bind\_cols(pan1,pan2) |>  
 mutate(QD = case\_when(  
 mean >= 3.26 & mean <= 4 ~ "Lubos na Sumasang-Ayon",  
 mean >= 2.51 & mean <= 3.25 ~ "Sumasang-Ayon",  
 mean >= 1.76 & mean <= 2.5 ~ "Bahagyang Sumasang-Ayon",  
 mean >= 1 & mean <= 1.75 ~ "Hindi Sumasang-Ayon"  
 ))  
  
pan3 |>  
 gt()

| pananaw | mean | sd | QD |
| --- | --- | --- | --- |
| p1 | 2.615385 | 0.9607689 | Sumasang-Ayon |
| p2 | 2.923077 | 0.4935481 | Sumasang-Ayon |
| p3 | 2.230769 | 0.9268087 | Bahagyang Sumasang-Ayon |
| p4 | 2.846154 | 0.5547002 | Sumasang-Ayon |
| p5 | 2.307692 | 0.8548504 | Bahagyang Sumasang-Ayon |
| p6 | 2.076923 | 0.9540736 | Bahagyang Sumasang-Ayon |
| p7 | 2.000000 | 1.1547005 | Bahagyang Sumasang-Ayon |
| p8 | 2.153846 | 0.5547002 | Bahagyang Sumasang-Ayon |
| p9 | 2.076923 | 0.9540736 | Bahagyang Sumasang-Ayon |
| p10 | 2.307692 | 0.7510676 | Bahagyang Sumasang-Ayon |
| p11 | 2.000000 | 0.7071068 | Bahagyang Sumasang-Ayon |
| p12 | 2.307692 | 0.8548504 | Bahagyang Sumasang-Ayon |
| p13 | 2.230769 | 0.5991447 | Bahagyang Sumasang-Ayon |
| p14 | 1.769231 | 0.7250111 | Bahagyang Sumasang-Ayon |
| p15 | 1.846154 | 0.8987170 | Bahagyang Sumasang-Ayon |
| po\_mean | 2.246154 | 0.1893631 | Bahagyang Sumasang-Ayon |

### Data for Dalas

dal1 <- pandal |>  
 select(d1:d15) |>  
 summarise\_if(is.numeric, mean) |>  
 rowwise() |>  
 mutate(do\_mean = mean((c\_across(d1:d15)))) |>  
 pivot\_longer(cols = everything(), names\_to = "dalas",  
 values\_to = "mean")  
  
dal2 <- pandal |>  
 select(d1:d15) |>  
 summarise\_if(is.numeric, sd) |>  
 rowwise() |>  
 mutate(do\_sd = sd((c\_across(d1:d15)))) |>  
 pivot\_longer(cols = everything(), names\_to = "dalas",  
 values\_to = "sd") |>  
 select(sd)  
  
dal3 <- bind\_cols(dal1,dal2) |>  
 mutate(QD = case\_when(  
 mean >= 3.26 & mean <= 4 ~ "Madalas na Ginagamit",  
 mean >= 2.51 & mean <= 3.25 ~ "Ginagamit",  
 mean >= 1.76 & mean <= 2.5 ~ "Di-Madalas na Ginagamit",  
 mean >= 1 & mean <= 1.75 ~ "Di-Kailanman Ginagamit"  
 ))  
  
dal3 |>  
 gt()

| dalas | mean | sd | QD |
| --- | --- | --- | --- |
| d1 | 2.461538 | 1.0500305 | Di-Madalas na Ginagamit |
| d2 | 1.846154 | 0.3755338 | Di-Madalas na Ginagamit |
| d3 | 2.076923 | 0.7595545 | Di-Madalas na Ginagamit |
| d4 | 2.461538 | 0.5188745 | Di-Madalas na Ginagamit |
| d5 | 2.230769 | 0.4385290 | Di-Madalas na Ginagamit |
| d6 | 2.000000 | 0.4082483 | Di-Madalas na Ginagamit |
| d7 | 2.615385 | 0.9607689 | Ginagamit |
| d8 | 2.153846 | 0.6887372 | Di-Madalas na Ginagamit |
| d9 | 2.230769 | 0.4385290 | Di-Madalas na Ginagamit |
| d10 | 2.692308 | 0.7510676 | Ginagamit |
| d11 | 2.307692 | 0.9473309 | Di-Madalas na Ginagamit |
| d12 | 2.000000 | 0.5773503 | Di-Madalas na Ginagamit |
| d13 | 2.384615 | 0.8697185 | Di-Madalas na Ginagamit |
| d14 | 1.538462 | 0.6602253 | Di-Kailanman Ginagamit |
| d15 | 1.923077 | 0.7595545 | Di-Madalas na Ginagamit |
| do\_mean | 2.194872 | 0.2172969 | Di-Madalas na Ginagamit |