#### **KELOMPOK 1**

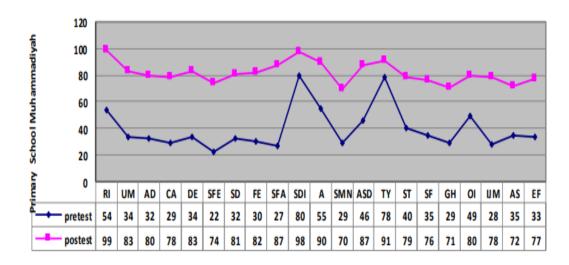
## Anggota Kelompok:

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Analisis Artikel Bulkani dkk dengan judul "Development of Animation Learning Media Based on Local Wisdom to Improve Student Learning Outcomes in Elementary Schools"

## 1. Uji Visualisasi Data

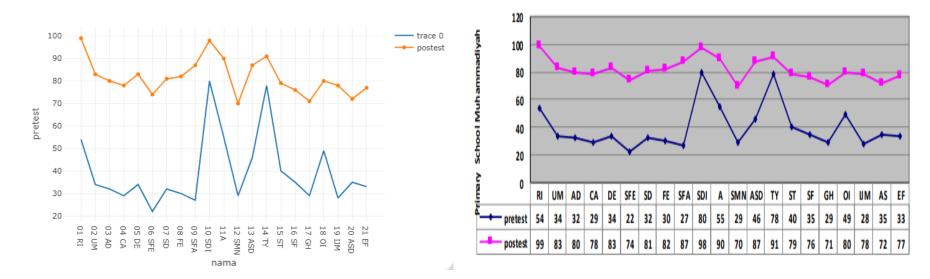
Diketahui bahwa nilai postest dan pretest SD Muhammdiyah kelas IV A sebagai berikut, setelah kita uji menggunakan program R dapat dibuktikan bahwa data yang diperolejh dalam penetian ini valid



## Uji program R

```
RStudio
File Edit Code View Plots Session Build
                                     Debug Profile
   ● KELAS4A.R* ×
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                                                                - Run **
      setwd('D:/Kuliah/semester 7/Kompstat/TugasAKHIR')
    2 data_iva<-read.csv('iva.csv')</pre>
    3 data_iva
      pretest=data_ivaSpretest
      postest=data_iva$postest
     nama=data_ivaSnama
      library(plotly)
   10 data <- data.frame(nama, pretest)
   11
   12 fig <- plot_ly(data, x=~nama, y=~pretest, type='scatter', mode='line')
   13 fig <- fig %>% add_trace(y=~postest, name='postest', mode='lines+markers')
```

Perbadingan grafik scatter dengan grafik dala, penelitian ini



## 2. Uji Statistik

```
Untitled1*
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                                                 1 data1 <- read.csv('iva_muhi.csv')</pre>
 2 data2 <- read.csv('ivb_muhi.csv')</pre>
 3 data3 <- read.csv('iva_panandut.csv')</pre>
 4 data4 <- read.csv('ivb_panandut.csv')
  5 data5 <- read.csv('iva_panarung.csv')</pre>
  8 pretest <- c(data1$pretest, data2$pretest, data3$pretest, data4$pret</pre>
    postest <- c(data1$postest, data2$postest, data3$postest, data4$post</pre>
11 summary(pretest)
12 summary(postest)
14 library(nortest)
16 lillie.test(pretest)
17 lillie.test(postest)
19 t.test(pretest, postest, mu=0)
```

# a. Hasil Uji Statistik Deskritif

```
> summary(pretest)
   Min. 1st Qu. Median
                           Mean 3rd Qu.
                                             Ma \times .
                   47.50
                           48.79
  18.00
          34.00
                                    64.00
                                             81.00
> summary(postest)
   Min. 1st Qu.
                  Median
                            Mean 3rd Qu.
                                             Ma \times .
                   81.00
                            81.60
                                    87.00
  63.00
          77.25
                                             99.00
```

## b. Hasil Uji Normalitas

```
> library(nortest)
> lillie.test(pretest)

Lilliefors (Kolmogorov-Smirnov) normality test

data: pretest
D = 0.15857, p-value = 0.0005156

> lillie.test(postest)

Lilliefors (Kolmogorov-Smirnov) normality test

data: postest
D = 0.092315, p-value = 0.2109
```

#### c. Hasil Uji T-Test

```
> t.test(pretest, postest, mu=0)

Welch Two Sample t-test

data: pretest and postest
t = -13.248, df = 93.205, p-value < 2.2e-16
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
    -37.72393 -27.88897
sample estimates:
mean of x mean of y
48.79032 81.59677</pre>
```