

Lampiran 9

Perhitungan Observasi Awal

1. Observasi Awal

a. Rentangan (R)

$$R = \text{Skor tertinggi} - \text{skor terendah}$$

$$R = 83 - 50$$

$$R = 33$$

b. BK

$$BK = 1 + 3,3 \cdot \log n$$

$$BK = 1 + 3,3 \cdot \log 30$$

$$BK = 4,33 \times 1,48$$

$$BK = 6,4 \rightarrow 6$$

c. PK = $\frac{R}{BK}$

$$BK$$

$$PK = \frac{33}{6}$$

$$6$$

$$PK = 5,5 = 6$$

d. Rata-rata $x = \frac{\sum Xi}{n}$

$$X = \frac{1872}{30}$$

$$x = 62$$

Lampiran 10

Perhitungan Siklus 1

1. Tes Siklus I

a. Rentangan (R)

R = Skor tertinggi- skor terendah

$$R = 94 - 50$$

$$R = 44$$

b. BK

$$BK = 1 + 3,3 \log n$$

$$BK = 1 + 3,3 \log 30$$

$$BK = 5,5 \rightarrow 6$$

c. PK = 44

$$6$$

$$PK = 7,3$$

d. Rata -rata

$$x = \frac{\sum Xi}{n} \quad X = \frac{2156}{30} \quad x = 72$$

Lampiran 11

Perhitungan Tes Akhir

1. Tes Akhir

a. Rentangan (R)

R = Skor tertinggi- skor terendah

$$R = 94 - 72$$

$$R = 22$$

b. BK

$$BK = 1 + 3,3 \log n$$

$$BK = 1 + 3,3 \log 30$$

$$BK = 6,4 \rightarrow 6$$

c. PK = 22

$$6$$

d. PK = 3,6 \rightarrow 4

e. Rata-rata

$$x = \frac{\sum Xi}{n} \quad X = \frac{2461}{30} \quad x = 82$$