

Lampiran 9

Uji Homogenitas

Varian media realia

$$S^2 = \frac{\sum f \cdot x^2}{n-1} - \frac{(\sum f \cdot x)^2}{n(n-1)}$$

$$S^2 = \frac{26027}{12-1} - \frac{(558)^2}{12(12-1)}$$

$$= 2366,09 - 2358,81$$

$$= 7,28$$

Varian media audio recorder

$$S^2 = \frac{\sum f \cdot x^2}{n-1} - \frac{(\sum f \cdot x)^2}{n(n-1)}$$

$$S^2 = \frac{17859}{12-1} - \frac{(462)^2}{12(12-1)}$$

$$= 1623,5 - 1617 = 6,5$$

Sampel	db	1 / db	S ²	Log S ²	db.Log S ²
Realia	n - 1 12 - 1 = 11	0,09	7,28	0,86	9,46
Audio Record	n - 1 12 - 1 = 11	0,09	6,5	0,81	8,94
Jumlah	22				18,40

Variansi Gabungan

$$\begin{aligned}
 S^2 &= \frac{\Sigma (db \cdot S_n^2)}{\Sigma db} \\
 &= \frac{(11 \times 7,28) + (11 \times 6,5)}{22} \\
 &= \frac{80,08 + 71,5}{22} = 6,89
 \end{aligned}$$

$$\text{Log } S^2 = \text{Log } 6,89 = 0,84$$

$$\begin{aligned}
 \text{Nilai } B &= (\Sigma db) \text{Log } S^2 \\
 &= (22) 0,84 = 18,48
 \end{aligned}$$

$$\begin{aligned}
 \text{Harga } \chi^2 &= (\ln 10) \cdot \{B - \Sigma (db \text{Log } S^2)\} \\
 &= 2,30 (18,48 - 18,40) \\
 &= 2,30 (0,08) = 0,184
 \end{aligned}$$

Nilai tabel jika $\alpha = 0,05$ dari tabel distribusi Chi Kuadrat dengan $db = K - 1 = 2 -$

$1 = 1$, didapat $\chi^2_{0,95(1)} = 3,84$ Karena $\chi^2_{hitung} < \chi^2_{tabel}$ ($0,184 < 3,84$)

maka H_0 diterima sehingga dapat disimpulkan bahwa data penelitian homogen.