

TARAF KESUKARAN

No.	SISWA YANG	INDEKS KESUKARAN	KATEGORI
Butir 1	25	0.63	Sedang
Butir 2	19	0.48	Sedang
Butir 3	32	0.80	mudah
Butir 4	31	0.78	mudah
Butir 5	15	0.38	Sedang
Butir 6	31	0.78	mudah
Butir 7	24	0.60	Sedang
Butir 8	25	0.63	Sedang
Butir 9	11	0.28	sukar
Butir 10	30	0.75	mudah
Butir 11	31	0.78	mudah
Butir 12	22	0.55	Sedang
Butir 13	10	0.25	sukar
Butir 14	14	0.35	Sedang
Butir 15	25	0.63	Sedang
Butir 16	25	0.63	Sedang
Butir 17	30	0.75	mudah
Butir 18	21	0.53	Sedang
Butir 19	28	0.70	Sedang
Butir 20	19	0.48	Sedang
Butir 21	30	0.75	mudah
Butir 22	21	0.53	Sedang
Butir 23	21	0.53	Sedang
Butir 24	25	0.63	Sedang
Butir 25	13	0.33	Sedang
Butir 26	16	0.40	Sedang
Butir 27	24	0.60	Sedang
Butir 28	31	0.78	mudah
Butir 29	18	0.45	Sedang
Butir 30	16	0.40	Sedang
Butir 31	16	0.40	Sedang
Butir 32	10	0.25	sukar
Butir 33	21	0.53	Sedang
Butir 34	27	0.68	Sedang
Butir 35	28	0.70	Sedang
Butir 36	21	0.53	Sedang
Butir 37	22	0.55	Sedang
Butir 38	26	0.65	Sedang
Butir 39	15	0.38	Sedang
Butir 40	16	0.40	Sedang
Butir 41	21	0.53	Sedang

Butir 42	24	0.60	Sedang
Butir 43	23	0.58	Sedang
Butir 44	30	0.75	mudah
Butir 45	28	0.70	Sedang
Butir 46	25	0.63	Sedang
Butir 47	21	0.53	Sedang
Butir 48	19	0.48	Sedang
Butir 49	19	0.48	Sedang
Butir 50	24	0.60	Sedang
Butir 51	19	0.48	Sedang
Butir 52	14	0.35	Sedang
Butir 53	21	0.53	Sedang
Butir 54	21	0.53	Sedang
Butir 55	25	0.63	Sedang
Butir 56	23	0.58	Sedang
Butir 57	25	0.63	Sedang
Butir 58	7	0.18	sukar
Butir 59	32	0.80	mudah
Butir 60	27	0.68	Sedang
Butir 61	22	0.55	Sedang
Butir 62	21	0.53	Sedang
Butir 63	20	0.50	Sedang
Butir 64	28	0.70	Sedang
Butir 65	17	0.43	Sedang
Butir 66	28	0.70	Sedang

Daya Beda

No.Soa	JA	JB	BA	BB	PA	PB	D	Klasifikasi	Keterangan
1	20	20	14	11	0.70	0.55	0.15	jelek	drop
2	20	20	13	6	0.65	0.30	0.35	cukup	valid
3	20	20	20	12	1.00	0.60	0.40	cukup	valid
4	20	20	18	13	0.90	0.65	0.25	baik	valid
5	20	20	7	8	0.35	0.40	-0.05	negatif	drop
6	20	20	18	13	0.90	0.65	0.25	cukup	valid
7	20	20	18	6	0.90	0.30	0.60	baik	valid
8	20	20	20	5	1.00	0.25	0.75	baik sekali	valid
9	20	20	7	4	0.35	0.20	0.15	jelek	drop
10	20	20	20	10	1.00	0.50	0.50	baik	valid
11	20	20	19	12	0.95	0.60	0.35	baik	valid
12	20	20	18	4	0.90	0.20	0.70	baik	valid
13	20	20	8	2	0.40	0.10	0.30	cukup	valid
14	20	20	7	7	0.35	0.35	0.00	jelek	drop
15	20	20	19	6	0.95	0.30	0.65	baik	valid
16	20	20	19	6	0.95	0.30	0.65	baik	valid
17	20	20	19	11	0.95	0.55	0.40	baik	valid
18	20	20	13	8	0.65	0.40	0.25	cukup	valid
19	20	20	18	10	0.90	0.50	0.40	baik	valid
20	20	20	12	7	0.60	0.35	0.25	cukup	valid
21	20	20	20	10	1.00	0.50	0.50	baik	valid
22	20	20	16	5	0.80	0.25	0.55	baik	valid
23	20	20	16	5	0.80	0.25	0.55	baik	valid
24	20	20	18	7	0.90	0.35	0.55	baik	valid
25	20	20	10	3	0.50	0.15	0.35	cukup	valid
26	20	20	10	6	0.50	0.30	0.20	cukup	valid
27	20	20	11	13	0.55	0.65	-0.10	negatif	drop
28	20	20	20	11	1.00	0.55	0.45	baik	valid
29	20	20	15	3	0.75	0.15	0.60	baik	valid
30	20	20	12	4	0.60	0.20	0.40	baik	valid
31	20	20	9	7	0.45	0.35	0.10	jelek	drop
32	20	20	7	3	0.35	0.15	0.20	jelek	drop
33	20	20	15	6	0.75	0.30	0.45	baik	valid
34	20	20	17	10	0.85	0.50	0.35	cukup	valid
35	20	20	20	8	1.00	0.40	0.60	baik	valid
36	20	20	16	5	0.80	0.25	0.55	baik	valid
37	20	20	17	5	0.85	0.25	0.60	baik	valid
38	20	20	20	6	1.00	0.30	0.70	baik	valid
39	20	20	13	2	0.65	0.10	0.55	baik	valid
40	20	20	13	3	0.65	0.15	0.50	baik	valid
41	20	20	15	6	0.75	0.30	0.45	baik	valid
42	20	20	17	7	0.85	0.35	0.50	baik	valid

43	20	20	20	3	1.00	0.15	0.85	baik sekali	valid
44	20	20	20	10	1.00	0.50	0.50	baik	valid
45	20	20	18	10	0.90	0.50	0.40	baik	valid
46	20	20	19	6	0.95	0.30	0.65	baik	valid
47	20	20	14	7	0.70	0.35	0.35	cukup	valid
48	20	20	14	5	0.70	0.25	0.45	baik	valid
49	20	20	13	6	0.65	0.30	0.35	cukup	valid
50	20	20	19	5	0.95	0.25	0.70	baik	valid
51	20	20	12	7	0.60	0.35	0.25	cukup	valid
52	20	20	8	6	0.40	0.30	0.10	jelek	drop
53	20	20	17	4	0.85	0.20	0.65	baik	valid
54	20	20	16	5	0.80	0.25	0.55	baik	valid
55	20	20	15	10	0.75	0.50	0.25	cukup	valid
56	20	20	18	5	0.90	0.25	0.65	baik	valid
57	20	20	17	8	0.85	0.40	0.45	baik	valid
58	20	20	16	16	0.80	0.80	0.00	jelek	drop
59	20	20	18	9	0.90	0.45	0.45	baik	valid
60	20	20	17	5	0.85	0.25	0.60	baik	valid
61	20	20	15	7	0.75	0.35	0.40	baik	valid
62	20	20	15	6	0.75	0.30	0.45	baik	valid
63	20	20	18	2	0.90	0.10	0.80	baik sekali	valid
64	20	20	17	11	0.85	0.55	0.30	baik	valid
65	20	20	14	3	0.70	0.15	0.55	baik	valid
66	20	20	19	9	0.95	0.45	0.50	baik	valid

VALIDITAS

NO.	NAMA	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35			
1	Kalista Umari	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1		
2	Aviana Hanna Anggraini	1	0	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1		
3	Annisa Eka Putri	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	1	
4	Fannya M.D.	0	1	1	1	0	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1	1		
5	Adila Apsara	1	1	1	1	0	1	1	1	0	1	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	0	0	0	0	0	0	1		
6	X1	1	1	0	0	0	0	0	0	0	1	0	1	0	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	1	1	0		
7	X2	1	1	0	0	1	0	0	0	0	1	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	
8	X3	0	0	0	1	1	1	0	0	1	0	1	0	0	0	0	1	1	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	1	
9	ayrin	1	0	1	1	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	1	1	1	
10	Annnisa Try Utami	1	0	1	1	0	1	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	
11	Renardi	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0
12	Fariz	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0		
13	Galih	0	0	1	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	
14	Pandu	0	0	0	1	1	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	
15	Arnetha Septinez	1	1	1	1	0	1	1	1	1	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
16	Tasya Armani Putri	1	1	1	1	0	1	1	1	0	1	1	1	0	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	
17	Rully Dwi H.	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	1	1	1	1	0	1	0	1	1	1	0	0	1	1	1	1	
18	X4	1	1	1	1	0	1	1	1	0	1	1	1	0	0	1	1	1	0	1	0	1	0	1	0	1	0	0	0	1	1	1	0	0	1	1	1	1	
19	X5	1	1	1	1	0	1	1	1	1	1	1	0	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	0	0	
20	M. Rizki Ramadhan	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	
21	Adinda Kemala Eka	0	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0	1	0	1	0	0	1	0	1	1	0	1	0	0	1	0	1	1	
22	X6	1	0	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0	0	1	0	0	1	1	0	0	1	0	0	1	0	1	1	
23	Nubli	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	1	0	0		
24	Abyan Naufal A.	0	0	1	1	0	1	1	0	0	0	1	0	0	1	0	1	1	1	1	0	1	1	0	0	1	1	1	1	1	0	0	0	1	0	0	1	0	0
25	M. Indriawati	1	0	0	0	1	1	1	0	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	0
26	X7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	
27	M.W. Aji Wibowo	0	1	1	1	0	1	1	0	0	0	0	0	0	0	1	0	1	0	1	0	1	1	1	1	1	0	1	0	1	1	0	1	0	1	0	0	1	
28	Fidya Zahra A.	0	1	1	0	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	0	0	1	0	0	1	0	1	1	1	1	
29	Neno Adani	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	0	1	0	1	
30	Mimandita Atsari	0	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	0	1	1	1	0	0	1	1	1	0	1	0	1	0	1	1	
31	X8	1	0	1	1	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	1	1	
32	X9	1	0	1	1	0	1	0	1	0	1	1	0	0	0	0	0	0	1	0	1	1	1	1	1	0	1	1	0	1	0	0	1	0	0	1	0	1	1
33	X10	1	0	1	1	0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	1	1	
34	Prayoga Anugerah N.	1	0	1	1	0	1	1	1	1	1	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	0	1	1	1	1
35	Lew	1	1	1	1	0	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	0	1	1	1	1	0	0	1	1	1	1	0	0	1	1	1	1	
36	Gana	0	1	1	0	0	1	0	1	0	1	1	1	0	1	1	1	1	1	1	0	1	1	1	1	0	0	0	1	1	1	0	0	1	1	1	1	1	
37	Beta	0	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	0	0	0	1	1	1	0	0	0	0	1	1	1	
38	Mahda	1	0	1	1	1	1	1	1	1	0	0	1	1	0	0	0	0	0	1	0	1	1	1	1	1	0	1	1	0	0	0	0	0	0	1	0	1	0
39	Kartika Qonita Putri	1	1	0	1	1	0	0	0	1	1	0	0	0	0	1	1	1	0	0	0	1	1	0	0	0	0	0	0	1	0	0	1	0	0	1	0	1	0
40.	X11	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	
JUMLAH		25	19	32	31	15	31	24	25	11	30	31	22	10	14	25	25	30	21	28	19	30	21	21	25	13	16	24	31	18	16	16	10	21	27	28			

p	0.63	0.48	0.8	0.78	0.38	0.78	0.6	0.63	0.28	0.75	0.78	0.55	0.25	0.35	0.63	0.63	0.75	0.53	0.7	0.48	0.75	0.53	0.53	0.63	0.33	0.4	0.6	0.78	0.45	0.4	0.4	0.25	0.53	0.68	0.7		
q	0.38	0.53	0.2	0.23	0.63	0.23	0.4	0.38	0.73	0.25	0.23	0.45	0.75	0.65	0.38	0.38	0.25	0.48	0.3	0.53	0.25	0.48	0.48	0.38	0.68	0.6	0.4	0.23	0.55	0.6	0.6	0.75	0.48	0.33	0.3		
Mp	38.9	41.9	40.4	39.6	37.7	40.5	45.2	45.7	42	41	40.9	45.9	46.5	37.9	44.9	44.8	40.8	40.9	41.8	43.8	42.2	45.6	47.3	44.3	47.6	41.1	36.9	40.7	48.8	44.8	40.1	43.2	42.3	41.2	43.5		
Mean	36.7																																				
SD	15.6																																				
r hitung	0.18	0.32	0.48	0.35	0.05	0.45	0.66	0.75	0.21	0.48	0.5	0.65	0.36	0.06	0.68	0.67	0.46	0.28	0.5	0.43	0.61	0.6	0.72	0.63	0.48	0.23	0.02	0.48	0.7	0.42	0.17	0.24	0.38	0.42	0.67		
r tabel	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
status	Drop	Valid	Valid	Valid	Drop	Valid	Valid	Valid	Drop	Valid	Valid	Valid	Valid	Drop	Valid	Valid	Valid	Drop	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Drop	Drop	Valid	Valid	Valid	Drop	Drop	Valid	Valid	Valid	Valid

RELIABILITAS

NO.	NAMA	2	3	6	7	8	10	11	12	13	15	16	17	19	20	22	23	24	25	28	29	30	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47				
1	Kalista Umari	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
2	Aviana Hanna Anggraini	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
3	Annisa Eka Putri	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1	0	1	1	1	1	0	1	1	1	1	1	1	1			
4	Fannya M.D.	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	0	1	1	1	1	1	1	1			
5	Adila Apsara	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	0	0	0	0	1	1	0	1	1	1	0	0	1	1	1	1	1	1			
6	X1	1	0	0	0	0	1	0	1	0	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	1	0	1	0		
7	X2	1	0	0	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1		
8	X3	0	0	1	0	0	0	1	0	0	0	1	1	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1	1	0	1	0	0	0	0	1	1	1	1		
9	ayrin	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	1	1	0	0	1	0	0	1	0	0	1	0	0	1	0	1		
10	Annnisa Try Utami	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	
11	Renardi	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0		
12	Fariz	0	1	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	1	0	0	1	0	0	1	0	0	1	0	0	0	0	1	0	1	0	0	0		
13	Galih	0	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0		
14	Pandu	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	1	0	1	
15	Armetha Septinez	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
16	Tasya Armani Putri	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	0	1	1	
17	Rully Dwi H.	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	0		
18	X4	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	0	1	0	1	0	1	1	1	1	1	0	1	1	1	0	0	1	1	1	1	1	1	0		
19	X5	1	1	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	
20	M. Rizki Ramadhan	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
21	Adinda Kemala Eka	1	1	1	1	1	1	1	1	0	1	1	1	1	0	0	1	0	0	1	1	0	0	1	1	0	0	1	1	1	1	0	1	1	1	1	1	1	1		
22	X6	0	1	0	1	1	1	1	1	0	1	1	1	1	0	0	1	0	0	1	0	1	0	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1		
23	Nubli	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	1	1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0		
24	Abyan Naufal A.	0	1	1	1	0	0	1	0	0	0	1	1	1	0	1	0	0	1	1	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	
25	M. Indriawati	0	0	1	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	1	1	1	1	1	1	0		
26	X7	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	1	1	1	1	1	1	0		
27	M.W. Aji Wibowo	1	1	1	1	0	0	0	0	0	1	0	1	1	1	1	0	1	1	0	1	0	1	0	0	1	0	1	0	1	0	0	0	0	0	1	0	0	0		
28	Fidya Zahra A.	1	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
29	Neno Adani	0	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1	0	1	0	1	1	0	1	1	0	1	1	1	1	1	1	1		
30	Mimandita Atsari	1	1	1	0	1	1	1	0	0	1	1	1	1	1	0	1	1	0	1	1	0	0	1	1	0	0	1	1	0	0	0	0	0	0	0	1	0	1	0	
31	X8	0	1	1	0	1	1	0	0	1	0	0	0	0	0	1	0	0	1	1	0	0	1	1	0	1	1	1	0	1	1	0	0	1	0	1	1	0	0		
32	X9	0	1	1	0	1	1	1	0	0	0	1	1	1	1	1	0	1	1	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0
33	X10	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1	0	0	1	0	0	1	0	0	1	0	0	1	1	0	1	
34	Prayoga Anugerah N.	0	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
35	Lew	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0		
36	Gana	1	1	1	0	1	1	1	1	0	1	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	1	1	1	0		
37	Beta	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	1	1	0	1	1	0	1	1	1	1	0	1	1	0	1	1	1	1	1	1		
38	Mahda	0	1	1	1	1	1	0	0	1	0	0	0	1	1	1	1	0	1	0	1	0	0	1	0	1	1	0	0	0	1	1	0	0	1	0	0	1	0	0	
39	Kartika Qonita Putri	1	0	0	0	0	1	1	0	0	1	1	1	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	
40.	X11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0		
JUMLAH		19	32	31	24	25	30	31	22	10	25	25	30	28	19	21	21	25	13	31	18	16	21	27	28	21	22	26	15	16	21	24	23	30	28	25	21				

k 51
 p 0.37 0.63 0.61 0.47 0.49 0.59 0.61 0.43 0.2 0.49 0.49 0.59 0.55 0.37 0.41 0.41 0.49 0.25 0.61 0.35 0.31 0.41 0.53 0.55 0.41 0.43 0.51 0.29 0.31 0.41 0.47 0.45 0.59 0.55 0.49 0.41
 q 0.63 0.37 0.39 0.53 0.51 0.41 0.39 0.57 0.8 0.51 0.51 0.41 0.45 0.63 0.59 0.59 0.51 0.75 0.39 0.65 0.69 0.59 0.47 0.45 0.59 0.57 0.49 0.71 0.69 0.59 0.53 0.55 0.41 0.45 0.51 0.59
 var tot 204
 p*q 0.23 0.23 0.24 0.25 0.25 0.24 0.24 0.25 0.16 0.25 0.25 0.24 0.25 0.23 0.24 0.24 0.25 0.19 0.24 0.23 0.22 0.24 0.25 0.25 0.24 0.25 0.25 0.21 0.22 0.24 0.25 0.25 0.24 0.25 0.25 0.24 0.25 0.25 0.24
 sigma p*q 12.2
 KR-20 0.96

RELIABILITAS

48	49	50	53	54	55	56	57	60	61	62	63	64	65	66	JUMLAH
1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	49
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	46
1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	46
0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	40
0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	13
0	0	0	1	0	1	0	1	0	0	0	0	1	0	0	12
1	0	0	0	0	0	1	1	0	0	0	0	0	0	1	19
0	1	0	0	0	1	1	0	1	0	1	0	1	0	0	18
0	0	0	0	0	1	1	0	1	0	1	0	1	0	0	16
0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	9
0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	10
0	1	0	0	0	1	0	1	1	0	0	0	1	0	0	11
0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	14
1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	49
1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	46
0	0	1	1	1	1	1	1	1	1	0	1	1	0	1	40
0	0	0	0	0	0	0	0	1	0	1	1	0	0	1	32
0	0	0	0	0	0	0	1	0	1	0	0	1	0	1	16
1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	48
1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	42
1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	29
1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	11
0	0	0	0	1	1	0	0	1	0	0	0	1	0	1	19
1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	28
1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	23
0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	20
1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	46
1	0	1	1	0	0	1	1	1	1	1	1	1	1	1	42
0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	22
0	0	1	0	1	1	1	1	1	1	1	0	1	0	1	26
1	1	1	0	1	1	0	1	0	0	0	0	1	0	1	25
0	0	0	0	0	1	0	0	1	0	1	0	1	0	1	16
1	0	1	1	1	1	1	1	1	1	0	1	1	1	1	44
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	44
0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	43
1	0	1	1	1	1	1	0	1	1	1	1	0	0	1	41
0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	20
0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	13
1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	47
19	19	24	21	21	25	23	25	27	22	21	20	28	17	28	1184

0.37 0.37 0.47 0.41 0.41 0.49 0.45 0.49 0.53 0.43 0.41 0.39 0.55 0.33 0.55

0.63 0.63 0.53 0.59 0.59 0.51 0.55 0.51 0.47 0.57 0.59 0.61 0.45 0.67 0.45

0.23 0.23 0.25 0.24 0.24 0.25 0.25 0.25 0.25 0.25 0.24 0.24 0.25 0.22 0.25

No.	Nama	JK	Skor		Selisih
			Pre test	Post test	
1	Adhelansyah Gamar Putra	L	10	18	-8
2	Adhitia Rangga Ramadhani	L	15	20	-5
3	Anisa Diniyanti	P	23	30	-7
4	Anisa Fabrian Hidayati	P	25	30	-5
5	Annisa Dinda Soraya	P	23	29	-6
6	Annisa Ramadhanty	P	20	24	-4
7	Aqil Arrosid	L	7	12	-5
8	Awan Rahmadewi	P	12	17	-5
9	Dita Orchidea	P	21	29	-8
10	Elton Cang	L	15	18	-3
11	Eureka Desanta	L	13	21	-8
12	Garda Prima Yudha	L	11	15	-4
13	Givano Tahta Utama	L	6	10	-4
14	Ibrahim	L	25	28	-3
15	Jilan Muhammad Pasha	L	6	13	-7
16	Joshua Krisna Satria	L	8	11	-3
17	Kattler David Chistofel	P	16	21	-5
18	Khairunnisa Nirmala Devi	P	9	13	-4
19	Masaji Suryo Jatmiko	L	16	25	-9
20	Maulidia Putri Sakinah	L	25	25	0
21	Meuthia Wulandari	L	23	27	-4
22	Mohammad Shahputra Ernanda	L	16	28	-12
23	Muhammad Haris Fadillah	P	21	30	-9
24	Muhammad Irfansyah	P	17	21	-4
25	Muhammad Rizky Fadila Afgan	P	9	17	-8
26	Muhammad Yuka Langbuana	P	17	24	-7
27	Muthia Vindyasari	P	22	30	-8
28	Nadhira Dewi Hanana Irsan	P	14	27	-13
29	Nindya Kirana	P	12	20	-8
30	Raden kevin Fachrinaldi	L	4	10	-6
31	Rania Ambarwati	P	19	24	-5
32	Sasqia Annisa Wibowo	P	22	30	-8
33	Shafira Dinda Fatimah Arif	P	12	16	-4
34	Siti Firza Rahmatillah	L	18	28	-10
35	Siwi Cikadewi	P	18	30	-12
36	Tri Sutrisno Adri	L	19	20	-1
37	Yasmin Pratita Apsari	P	19	27	-8
JUMLAH			588	818	

PERHITUNGAN UJI NORMALITAS DATA PEMAHAMAN DAMPAK PENYALAHGUNAAN NARKOBA

A. DATA HASIL PRE TEST

1. Menghitung rata-rata dan Simpangan

a. Menghitung rentang skor/R

R = Skor tertinggi - skor terendah

$$= 25 - 4$$

$$= 21$$

b. Menghitung banyak kelas

$$K = 1 + 3,3 \text{ LOG } N$$

$$= 1 + 3,3 \text{ LOG } 37$$

$$= 1 + 3,3 \cdot 1,568$$

$$= 1 + 5$$

$$= 6$$

C. Menghitung panjang kelas/P

$$P = R / K$$

$$= 21 / 6$$

$$= 3,5$$

$$= 4$$

Tabel Perhitungan Mean dan Varians Data Pre Tes

Kls Interval	Fi	Xi	Xi ²	Fixi	Fixi ²
4 - 7	2	5,5	30,25	11	60,5
8 - 11	7	9,5	90,25	66,5	631,75
12 - 15	7	13,5	182,25	94,5	1275,75
16 - 19	10	17,5	306,25	175	3062,5
20 - 23	8	21,5	462,25	172	3698
24 - 27	3	25,5	650,25	76,5	1950,75
JUMLAH	37	93	1721,5	595,5	10679,3

Mean : 15.89

Median : 16

Modus : $b + p(b_1/b_1 + b_2)$

$$17$$

SD : 5.95

var : 35.43

Simpangan : $\frac{n \sum \text{Fixi}^2 - (\sum \text{Fixi})^2}{n(n-1)}$

$$\frac{37 \cdot 10679,3 - (595,5)^2}{37 \cdot 36}$$

$$\frac{40513,85}{1332} = 30,41 = 5,51$$

2. Perhitungan Uji Normalitas Data Pre Test

Hipotesis

H₀ : Berdistribusi Normal

H₁ : Tidak Berdistribusi Normal

Kriteria

Terima H₀ jika $\chi^2_h < \chi^2_t$ pada taraf signifikansi $\alpha = 0,05$

Tabel . Perhitungan Uji Normalitas Data Pre Test

BATAS KELAS	Z	F (Z)	LUAS TIAP KLS	Fh	Fo	Fo-Fh	(F _o - F _h) ²	(F _o - F _h) ² /F _h
3.5	-2.08	0.0188						
			0.0605	2.2385	2	-0.2385	0.0569	0.0254
7.5	-1.41	0.0793	0.1504	5.5648	7	1.4352	2.0598	0.3701
11.5	-0.74	0.2297	0.2424	8.9688	7	-1.9688	3.8762	0.4322
15.5	-0.07	0.4721	0.257	9.509	10	0.491	0.2411	0.0254
19.5	0.61	0.7291	0.1706	6.3122	8	1.6878	2.8487	0.4513
23.5	1.28	0.8997	0.0747	2.7639	3	0.2361	0.0557	0.0202
27.5	1.95	0.9744						
Σ								1.3246

$$\chi^2_h = 1,3246$$

Karena $\chi^2_{(5;0,0,05)} = 11,070 > \chi^2_h = 1,3246$

Berdasarkan kriteria:

Jika $\chi^2_{hitung} > \chi^2_{tabel}$, artinya data berdistribusi tidak normal, dan

Jika $\chi^2_{hitung} < \chi^2_{tabel}$, artinya data berdistribusi normal

Keputusan: tolak H₀

Kesimpulan: Data diperoleh dari sampel yang berasal dari populasi berdistribusi normal

No.	Nama	JK	Skor		Selisih
			Pre test	Post test	
1	Adhelansyah Gamar Putra	L	10	17	-7
2	Adhitia Rangga Ramadhani	L	15	18	-3
3	Anisa Diniyanti	P	23	28	-5
4	Anisa Fabrian Hidayati	P	25	29	-4
5	Annisa Dinda Soraya	P	23	27	-4
6	Annisa Ramadhanty	P	20	21	-1
7	Aqil Arrosid	L	7	13	-6
8	Awan Rahmadewi	P	12	14	-2
9	Dita Orchidea	P	21	28	-7
10	Elton Cang	L	15	19	-4
11	Eureka Desanta	L	13	19	-6
12	Garda Prima Yudha	L	11	16	-5
13	Givano Tahta Utama	L	6	10	-4
14	Ibrahim	L	25	25	0
15	Jilan Muhammad Pasha	L	6	15	-9
16	Joshua Krisna Satria	L	8	13	-5
17	Kattler David Chistofel	P	16	20	-4
18	Khairunnisa Nirmala Devi	P	9	15	-6
19	Masaji Suryo Jatmiko	L	16	23	-7
20	Maulidia Putri Sakinah	L	25	24	1
21	Meuthia Wulandari	L	23	24	-1
22	Mohammad Shahputra Ernanda	L	16	26	-10
23	Muhammad Haris Fadillah	P	21	29	-8
24	Muhammad Irfansyah	P	17	21	-4
25	Muhammad Rizky Fadila Afgan	P	9	18	-9
26	Muhammad Yuka Langbuana	P	17	23	-6
27	Muthia Vindiyasari	P	22	30	-8
28	Nadhira Dewi Hanana Irsan	P	14	25	-11
29	Nindya Kirana	P	12	22	-10
30	Raden kevin Fachrinaldi	L	4	12	-8
31	Rania Ambarwati	P	19	23	-4
32	Sasqia Annisa Wibowo	P	22	30	-8
33	Shafira Dinda Fatimah Arif	P	12	17	-5
34	Siti Firza Rahmatillah	L	18	28	-10
35	Siwi Cikadewi	P	18	30	-12
36	Tri Sutrisno Adri	L	19	22	-3
37	Yasmin Pratita Apsari	P	19	27	-8
JUMLAH			588	801	

PERHITUNGAN UJI NORMALITAS DATA PEMAHAMAN DAMPAK PENYALHAGUNAAN NARKOBA

A. DATA HASIL POST TES

1. Menghitung rata-rata dan Simpangan

a. Menghitung rentang skor/R

R = Skor tertinggi - skor terendah

$$= 30 - 10$$

$$= 20$$

b. Menghitung banyak kelas

$$K = 1 + 3,3 \text{ LOG } N$$

$$= 1 + 3,3 \text{ LOG } 37$$

$$= 1 + 3,3 \cdot 1,568$$

$$= 1 + 5$$

$$= 6$$

C. Menghitung panjang kelas/P

$$P = R / K$$

$$= 20 / 6$$

$$= 3,3$$

$$= 4$$

Tabel Perhitungan Mean dan Varians Data Pre Tes

Kls Interval	Fi	Xi	Xi ²	FiXi	FiXi ²
10 - 13	4	11,5	132,25	46	529
14 - 17	6	15,5	240,25	93	1441,5
18 - 21	7	19,5	380,25	136,5	2661,75
22 - 25	9	23,5	552,25	211,5	4970,25
26 - 29	8	27,5	756,25	220	6050
30 - 33	3	31,5	992,25	94,5	2976,75
jumlah	37	129	3053,5	801,5	18629,25

Mean : 21.65

Median : 22

Modus : $b + p(b_1/b_1 + b_2)$

$$22$$

SD : 5.77

var : 33.29

simpangan : $\frac{n \sum FiXi^2 - (\sum FiXi)^2}{n(n-1)}$

$$\frac{37 \cdot 18629,25 - (801,5)^2}{37 \cdot 36}$$

$$= \frac{68880}{1332} = 51,71$$

$$= 7,22$$

$$= 5,93$$

2. Perhitungan Uji Normalitas Data Pre Test

Hipotesis

H₀ : Berdistribusi Normal

H₁ : Tidak Berdistribusi Normal

Kriteria

Terima H₀ jika $\chi^2_h < \chi^2_t$ pada taraf signifikansi $\alpha = 0,05$

Tabel . Perhitungan Uji Normalitas Data Pos Test

BATAS KELAS	Z	F (Z)	LUAS TIAP KLS	Fh	Fo	Fo-Fh	$(F_o - F_h)^2$	$(F_o - F_h)^2/F_h$
9.5	-2.11	0.0174	0.0619	2.2903	4	1.7097	2.9231	1.2763
13.5	-1.41	0.0793	0.1565	5.7905	6	0.2095	0.0439	0.0076
17.5	-0.72	0.2358	0.2522	9.3314	7	-2.3314	5.4354	0.5825
21.5	-0.03	0.488	0.2606	9.6422	9	-0.6422	0.4124	0.0428
25.5	0.67	0.7486	0.1645	6.0865	8	1.9135	3.6615	0.6016
29.5	1.36	0.9131	0.0667	2.4679	3	0.5321	0.2831	0.1147
33.5	2.05	0.9798						
Σ								2.6254

$$\chi^2_h = 2,6254$$

Karena $\chi^2(5;0,0.05) = 11,070 > \chi^2_h = 2,6254$

Berdasarkan kriteria:

Jika $\chi^2_{hitung} > \chi^2_{tabel}$, artinya data berdistribusi tidak normal, dan

Jika $\chi^2_{hitung} < \chi^2_{tabel}$, artinya data berdistribusi normal

Keputusan: tolak H₀

Kesimpulan: Data diperoleh dari sampel yang berasal dari populasi berdistribusi normal

No.	Nama	JK	Skor		Selisih
			Pre test	Post test	
1	Adhelansyah Gamar Putra	L	10	17	-7
2	Adhitia Rangga Ramadhani	L	15	18	-3
3	Anisa Diniyanti	P	23	28	-5
4	Anisa Fabrian Hidayati	P	25	29	-4
5	Annisa Dinda Soraya	P	23	27	-4
6	Annisa Ramadhanty	P	20	21	-1
7	Aqil Arrosid	L	7	13	-6
8	Awan Rahmadewi	P	12	14	-2
9	Dita Orchidea	P	21	28	-7
10	Elton Cang	L	15	19	-4
11	Eureka Desanta	L	13	19	-6
12	Garda Prima Yudha	L	11	16	-5
13	Givano Tahta Utama	L	6	10	-4
14	Ibrahim	L	25	25	0
15	Jilan Muhammad Pasha	L	6	15	-9
16	Joshua Krisna Satria	L	8	13	-5
17	Kattler David Chistofel	P	16	20	-4
18	Khairunnisa Nirmala Devi	P	9	15	-6
19	Masaji Suryo Jatmiko	L	16	23	-7
20	Maulidia Putri Sakinah	L	25	24	1
21	Meuthia Wulandari	L	23	24	-1
22	Mohammad Shahputra Ernanda	L	16	26	-10
23	Muhammad Haris Fadillah	P	21	29	-8
24	Muhammad Irfansyah	P	17	21	-4
25	Muhammad Rizky Fadila Afgan	P	9	18	-9
26	Muhammad Yuka Langbuana	P	17	23	-6
27	Muthia Vindyasari	P	22	30	-8
28	Nadhira Dewi Hanana Irsan	P	14	25	-11
29	Nindya Kirana	P	12	22	-10
30	Raden kevin Fachrinaldi	L	4	12	-8
31	Rania Ambarwati	P	19	23	-4
32	Sasqia Annisa Wibowo	P	22	30	-8
33	Shafira Dinda Fatimah Arif	P	12	17	-5
34	Siti Firza Rahmatillah	L	18	28	-10
35	Siwi Cikadewi	P	18	30	-12
36	Tri Sutrisno Adri	L	19	22	-3
37	Yasmin Pratita Apsari	P	19	27	-8
JUMLAH			588	801	
var			35.43243	33.28979	

$F = \frac{\text{varians terbesar}}{\text{varians terkecil}}$

$$\frac{35.43243}{33.28979}$$

$$1.064363$$

$$F(37)(0.05) = 1,72$$

Karena Fhitung < dari Ftabel

Keputusan: Terima Ho

Analisis Hipotesa menggunakan Uji T

Subjek	Pre tes	Post tes	d	Xd	x^2d
1	10	17	7	1.24	1.55
2	15	18	3	(2.76)	7.60
3	23	28	5	(0.76)	0.57
4	25	29	4	(1.76)	3.09
5	23	27	4	(1.76)	3.09
6	20	21	1	(4.76)	22.63
7	7	13	6	0.24	0.06
8	12	14	2	(3.76)	14.11
9	21	28	7	1.24	1.55
10	15	19	4	(1.76)	3.09
11	13	19	6	0.24	0.06
12	11	16	5	(0.76)	0.57
13	6	10	4	(1.76)	3.09
14	25	25	0	(5.76)	33.14
15	6	15	9	3.24	10.52
16	8	13	5	(0.76)	0.57
17	16	20	4	(1.76)	3.09
18	9	15	6	0.24	0.06
19	16	23	7	1.24	1.55
20	25	24	-1	(6.76)	45.65
21	23	24	1	(4.76)	22.63
22	16	26	10	4.24	18.01
23	21	29	8	2.24	5.03
24	17	21	4	(1.76)	3.09
25	9	18	9	3.24	10.52
26	17	23	6	0.24	0.06
27	22	30	8	2.24	5.03
28	14	25	11	5.24	27.49
29	12	22	10	4.24	18.01
30	4	12	8	2.24	5.03
31	19	23	4	(1.76)	3.09
32	22	30	8	2.24	5.03
33	12	17	5	(0.76)	0.57
34	18	28	10	4.24	18.01
35	18	30	12	6.24	38.98
36	19	22	3	(2.76)	7.60
37	19	27	8	2.24	5.03
N	37				
Σ	588	801	213		349
\bar{x}	15.89	21.65			

$$Md = \frac{\Sigma d}{N}$$

$$= \frac{213}{37} = 5.76$$

$$t = \frac{Md}{\sqrt{\frac{\Sigma x^2 d}{N(N-1)}}}$$

$$\frac{5,76}{\sqrt{\frac{349}{37 \cdot 36}}}$$

$$\frac{5,76}{\sqrt{0,3}}$$

9.6

dengan harga $t_0 = 0$ dan $db = 37$
 dalam tabel distribusi t diketahui
 harga t kritik pada $ts0.05 = 1.68$
 $9,6 > 1,68$
 harga t_0 signifikan, jadi H_0 di tolak