

LAMPIRAN 2
**(VALIDITAS, RELIABILITAS, PRETEST-
POSTEST, DAN ANALISIS DATA)**

Lampiran 2.1 Perhitungan Validitas Nilai Angket Pretest Dengan Ms. Excel

DATA DAN PERHITUNGAN NILAI ANGKET PRETEST

No.	Nama	LIP	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	TOTAL			
1	ACHMAD DAFFA A.	L	3	3	3	1	2	2	2	2	2	1	4	2	3	3	2	4	1	4	1	2	3	2	3	1	3	59			
2	AMIRA PUTRI ARIF S.	P	3	3	3	2	3	3	2	2	2	2	3	3	3	4	2	3	3	4	4	3	3	3	3	1	2	69			
3	APRIILA NURITA H.	P	4	3	3	4	3	3	2	4	2	3	3	1	3	4	2	2	3	4	4	4	3	3	3	4	4	78			
4	DAMAI DANIS	L	3	4	3	2	3	3	2	3	4	2	3	3	3	3	2	4	2	4	2	3	3	2	3	2	3	71			
5	DESWITA AMELIA ZAHRA	P	4	4	3	2	2	4	2	2	2	3	3	4	3	4	3	3	3	1	1	2	3	2	2	2	2	66			
6	FIRTA CHOLIFATUNNISA	P	3	3	3	2	2	3	3	2	2	2	3	3	3	3	3	4	1	4	3	3	4	3	2	4	2	70			
7	GUNTUR WAHYU BHAKTIAR	L	2	2	2	1	2	2	2	1	1	3	2	2	1	2	3	3	3	2	3	4	4	4	3	3	4	61			
8	ILVI NUR DIANA	P	4	3	3	3	3	2	2	3	4	3	3	3	3	3	3	3	3	2	3	3	3	2	2	3	4	73			
9	KEYLA FAREN AZZAHRA	P	4	3	3	3	3	2	4	3	4	2	3	3	3	3	3	2	4	4	2	3	4	2	2	1	3	73			
10	M. RISKY SULISTYO S.	L	3	2	3	3	2	2	2	1	3	3	1	2	2	2	2	3	3	1	1	2	3	2	2	2	4	56			
11	MUHAMMAD ALDO S.	L	2	3	2	1	2	2	2	1	3	2	3	2	3	4	1	1	3	3	1	3	3	2	2	1	1	53			
12	MUHAMMAD AZZAMA	L	2	3	3	1	2	2	2	3	0	2	3	2	2	3	1	2	1	1	1	3	3	2	2	4	3	53			
13	MUHAMMAD BARQI L. M.	L	3	2	3	2	2	2	2	3	2	2	2	0	3	0	3	0	2	1	1	1	2	3	2	1	2	46			
14	MUHAMMAD REFAN M.	L	2	1	3	2	2	2	3	2	2	3	2	3	2	3	2	2	1	2	1	3	3	0	1	2	0	49			
15	NADYRA BUNGA AMELYA	P	4	3	3	3	3	2	3	2	4	2	3	3	3	3	3	0	2	0	2	3	3	3	2	2	3	64			
16	RAFA GAOZAN ALVARO	L	3	3	3	1	2	2	2	1	3	0	0	2	2	3	2	2	2	4	2	1	3	2	2	2	1	50			
17	RAYHAN GHIFFARI I.	L	3	2	3	1	2	2	2	2	1	1	3	2	3	3	2	2	3	1	2	4	3	2	2	0	2	53			
18	ROVINA EKA PRASETYA	L	2	3	3	1	2	2	2	3	3	2	3	2	3	2	2	2	2	3	1	3	3	2	2	2	1	56			
19	SATRIA IRWAN SAPUTRA	L	2	3	3	2	3	2	2	1	1	1	1	2	3	3	3	3	3	0	2	3	3	2	2	2	4	56			
20	SHIFA RACHMAHA.	P	3	3	4	3	3	3	3	3	3	3	3	3	4	4	3	4	3	3	1	3	3	3	3	3	4	78			
21	VANIA NURUL AIN R.	P	4	3	4	3	3	3	3	3	3	4	3	3	3	4	3	3	3	3	4	4	4	3	3	3	4	83			
22	WR. MUHAMMAD SYARIFI H.	L	3	3	3	2	3	3	2	1	4	2	3	2	3	3	3	3	4	4	1	3	3	2	2	4	3	69			
23	AFIDATUN NUR FADHILLAH	P	4	3	3	2	3	3	3	3	3	2	3	3	3	3	3	3	3	4	2	3	3	3	3	2	2	72			
	rHitung		0.660384	0.50779	0.475405	0.661303	0.74889	0.64419	0.41318	0.47341	0.42752	0.51275	0.481576	0.480688	0.46714	0.55312	0.46289	0.48898	0.43375	0.4905342	0.550314	0.48786	0.47895	0.42774	0.604054	0.429021	0.5472	1458	0.56127	rata-rata rhit pretest	
	rTabel		0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413				
	KETERANGAN		Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid				
	Varians		0.588933	0.42292	0.181818	0.770751	0.26087	0.34783	0.32806	0.81423	1.26087	0.78656	0.794466	0.703557	0.35968	0.81818	0.43874	1.26087	0.80632	2.0671937	1.083004	0.66403	0.20949	0.60079	0.312253	1.268775	1.41897	18.6	jumlah varians		

Lampiran 2.2 Perhitungan Validitas Nilai Angket Posttest Dengan Ms. Excel

DATA DAN PERHITUNGAN NILAI ANGKET POSTTEST

No.	Nama	L/P	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	TOTAL				
1	ACHMAD DAFFA A.	L	4	4	3	4	2	4	4	3	4	4	4	3	4	4	2	4	4	4	3	4	4	3	4	4	4	92				
2	AMIRA PUTRI ARIF S.	P	3	3	3	4	3	3	4	2	3	2	3	3	3	4	2	4	3	4	4	4	3	3	4	4	4	82				
3	APRILIA NURITA H.	P	3	4	3	4	3	4	3	4	2	4	4	3	3	4	4	2	3	2	4	4	3	4	3	4	4	85				
4	DAMAI DANIS	L	3	4	3	3	3	3	2	3	3	2	3	4	2	3	2	4	4	4	2	4	4	2	4	3	3	77				
5	DESWITA AMELIA ZAHRA	P	4	3	3	2	3	3	4	2	2	3	3	2	3	4	3	2	3	1	3	2	3	3	2	2	2	67				
6	FIRTA CHOLIFATUNNISA	P	3	4	3	3	2	4	3	2	4	2	4	4	3	3	3	3	1	4	2	3	4	4	2	3	2	75				
7	GUNTUR WAHYU BHAKTIAR	L	3	2	2	1	2	1	4	1	1	3	3	2	1	0	2	4	3	2	1	1	3	4	3	4	4	57				
8	ILVI NURDIANA	P	4	3	4	3	3	2	4	3	4	3	4	3	3	3	4	3	3	3	2	4	4	4	2	4	4	83				
9	KEYLA FAREN AZZAHRA	P	4	3	4	3	3	4	4	3	4	4	4	3	4	3	3	4	4	4	3	3	4	4	3	3	4	89				
10	M. RISKY SULISTYO S.	L	3	2	3	3	2	2	2	2	3	3	3	2	2	4	2	3	3	1	3	4	3	2	4	1	4	66				
11	MUHAMMAD ALDO S.	L	2	3	2	3	2	1	2	3	3	1	4	2	3	4	3	0	3	3	2	3	3	1	3	2	3	61				
12	MUHAMMAD AZZAM A.	L	2	3	3	2	2	4	2	3	3	4	3	2	2	3	1	2	3	1	3	3	1	3	2	4	4	65				
13	MUHAMMAD BARQI L. M.	L	4	2	3	3	2	4	4	3	2	4	2	4	3	4	3	4	2	3	1	2	2	4	2	0	2	69				
14	MUHAMMAD REFAN M.	L	2	1	3	2	2	3	3	2	4	3	4	3	4	2	2	4	1	3	1	3	3	3	1	2	4	65				
15	NADYRA BUNGA AMELYA	P	4	3	4	3	3	4	3	2	4	4	3	3	4	3	3	3	4	2	2	3	3	4	4	2	3	80				
16	RAFA GAOZAN ALVARO	L	3	3	4	2	2	4	0	1	3	2	2	2	2	3	2	1	2	4	3	3	3	4	2	4	1	62				
17	RAYHAN GHIFFARI I.	L	3	2	3	4	2	3	1	4	1	2	2	2	4	2	2	4	3	2	2	4	4	2	2	2	2	64				
18	ROVINA EKA PRASETYA	L	3	3	3	3	3	2	3	3	3	4	4	2	3	4	2	2	2	3	4	3	3	4	4	2	3	75				
19	SATRIA IRWAN SAPUTRA	L	2	4	3	3	3	4	4	1	4	4	2	2	3	1	3	3	3	3	2	3	3	4	2	2	4	72				
20	SHIFA RACHMAH A.	P	4	3	4	3	4	3	4	4	3	3	3	3	4	4	3	4	4	3	3	3	4	3	4	3	4	87				
21	VANIA NURUL AIN R.	P	4	3	4	3	3	4	4	3	4	4	4	4	3	4	4	4	3	4	4	4	4	4	4	4	4	94				
22	WR. MUHAMMAD SYARIF H.	L	3	4	3	4	3	3	2	3	4	3	3	3	3	3	3	4	4	4	2	4	3	4	2	4	4	82				
23	AFIDATUN NUR FADHILLAH	P	4	4	3	4	3	4	4	3	3	4	4	3	3	4	3	4	3	4	2	3	3	4	3	4	4	87			87	
	rHitung		0.609126	0.54824	0.542806	0.621375	0.64518	0.45752	0.50294	0.4594	0.51796	0.45094	0.477209	0.585253	0.48561	0.46253	0.51497	0.43674	0.45775	0.5220228	0.454091	0.51127	0.47893	0.43787	0.475282	0.418405	0.45983	12.1	0.54492	rata-rata rhit posttest		
	rTabel		0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413					
	KETERANGAN		Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid	Valid				
	Varians		0.541502	0.67984	0.332016	0.636364	0.33992	0.96838	1.31621	0.79447	0.90119	0.84585	0.565217	0.541502	0.63636	1.1502	0.60079	1.3004	0.77075	1.1343874	0.897233	0.63241	0.5415	0.79447	0.936759	1.355731	0.87352	20.1	jumlah varian			

Lampiran 2.3 Perhitungan Reliabilitas Nilai Angket Pretest dan Posttest Dengan Ms. Excel

RELIABILITAS PRETEST DAN POSTTEST

KRITERIA PENGUJIAN		
ACUAN	NILAI	KET
0.6	0.86751	RELIABLE
0.6	0.86595	RELIABLE

Lampiran 2.3 Perhitungan Validitas Dan Reliabilitas Nilai Angket Pretest Dengan SPSS

SPSS VALIDITAS DAN RELIABILITAS PRETEST

		Correlations																									
		SOAL01	SOAL02	SOAL03	SOAL04	SOAL05	SOAL06	SOAL07	SOAL08	SOAL09	SOAL10	SOAL11	SOAL12	SOAL13	SOAL14	SOAL15	SOAL16	SOAL17	SOAL18	SOAL19	SOAL20	SOAL21	SOAL22	SOAL23	SOAL24	SOAL25	TOTAL
SOAL01	Pearson Correlation	1	0.380	.417	.672	.524	.458	0.378	.445	.500	0.256	0.232	0.325	.417	0.262	.498	0.025	0.361	0.222	0.346	0.009	0.113	0.279	0.286	0.041	0.316	.661
	Sig. (2-tailed)		0.074	0.048	0.000	0.010	0.028	0.076	0.033	0.015	0.239	0.177	0.130	0.048	0.227	0.016	0.909	0.090	0.308	0.105	0.966	0.609	0.197	0.186	0.852	0.142	0.001
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SOAL02	Pearson Correlation	0.380	1	0.164	0.093	0.399	.562	-0.074	0.222	0.317	-0.103	0.348	0.380	.481	.464	0.078	0.317	0.162	0.313	0.111	-0.045	0.080	0.216	0.402	0.178	0.212	.508
	Sig. (2-tailed)	0.074		0.455	0.671	0.060	0.005	0.736	0.308	0.141	0.641	0.104	0.073	0.020	0.026	0.724	0.141	0.459	0.146	0.614	0.839	0.778	0.323	0.057	0.416	0.332	0.013
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SOAL03	Pearson Correlation	.417	0.164	1	.496	.417	0.361	0.372	.473	0.190	0.240	0.120	0.254	.533	0.236	0.322	0.285	0.000	0.074	0.102	0.000	0.000	0.000	0.191	0.189	0.268	.475
	Sig. (2-tailed)	0.048	0.455		0.019	0.048	0.090	0.080	0.023	0.386	0.269	0.587	0.242	0.009	0.279	0.134	0.188	1.000	0.737	0.642	1.000	1.000	1.000	0.383	0.387	0.215	0.022
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SOAL04	Pearson Correlation	.572	0.093	.486	1	.661	0.313	.421	.447	.437	.574	0.081	0.161	0.364	0.229	.435	0.022	0.374	0.050	0.353	0.199	0.098	0.177	0.157	0.312	.537	.661
	Sig. (2-tailed)	0.000	0.671	0.019		0.001	0.146	0.046	0.033	0.037	0.004	0.714	0.463	0.088	0.293	0.038	0.920	0.079	0.820	0.099	0.363	0.655	0.419	0.474	0.148	0.008	0.001
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SOAL05	Pearson Correlation	.524	0.399	.417	.661	1	0.335	0.338	0.356	.496	0.209	0.230	0.286	.503	0.394	.432	0.179	.521	0.266	.424	0.375	0.110	0.250	.422	0.206	.510	.745
	Sig. (2-tailed)	0.010	0.060	0.048	0.001		0.119	0.115	0.096	0.016	0.338	0.291	0.186	0.014	0.063	0.039	0.413	0.011	0.219	0.044	0.078	0.618	0.251	0.045	0.345	0.013	0.000
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
SOAL06	Pearson Correlation	.458	.562	0.361	0.313	0.335	1	0.070	0.241	0.122	0.370	0.338	.467	0.408	.511	0.309	.466	0.239	0.317	0.287	0.1						

SOAL13	Pearson Correlation Sig. (2-tailed)	.417	.481	.533	0.364	.503	0.408	0.230	.427	0.379	-0.011	.514	0.177	1	0.335	0.243	0.109	0.220	0.213	-0.032	0.032	-0.223	0.072	0.206	-0.129	0.080	.467
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL14	Pearson Correlation Sig. (2-tailed)	0.262	.464	0.236	0.229	0.394	.511	0.175	0.056	0.090	0.170	0.338	.539	0.335	1	-0.152	0.358	0.224	0.315	0.338	.432	0.329	-0.065	0.270	0.178	0.084	.553
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL15	Pearson Correlation Sig. (2-tailed)	.436	0.078	0.322	.435	.432	0.309	.422	0.063	0.232	0.252	-0.007	0.253	0.249	-0.152	1	0.170	0.365	-0.052	0.189	0.026	0.254	0.400	0.117	0.172	0.373	.463
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL16	Pearson Correlation Sig. (2-tailed)	0.025	0.317	0.285	0.022	0.179	.466	-0.012	-0.027	-0.009	0.133	0.168	.443	0.109	0.358	0.170	1	0.033	.442	0.157	0.177	0.392	0.043	.460	0.302	0.346	.489
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL17	Pearson Correlation Sig. (2-tailed)	0.309	0.141	0.188	0.920	0.413	0.025	0.356	0.302	0.366	0.545	.444	0.032	0.622	0.093	0.438		0.880	0.035	0.474	0.419	0.064	0.845	0.027	0.162	0.106	0.018
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL17	Pearson Correlation Sig. (2-tailed)	0.361	0.162	0.000	0.374	.521	0.239	0.073	-0.090	0.349	0.223	-0.017	0.079	0.220	0.224	0.365	0.033	1	0.095	0.197	0.284	0.159	0.250	0.213	-0.072	0.390	.434
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL18	Pearson Correlation Sig. (2-tailed)	0.222	0.315	0.074	0.050	0.266	0.317	0.113	0.244	.414	-0.051	0.301	0.153	0.215	0.315	-0.052	.442	0.035	1	0.310	0.071	0.288	0.087	.438	0.167	-0.110	.491
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL19	Pearson Correlation Sig. (2-tailed)	0.346	0.111	0.102	0.353	.424	0.287	0.129	0.215	-0.076	0.214	0.060	0.093	-0.032	0.338	0.189	0.157	0.197	0.310	1	.522	.502	.546	.517	0.211	0.304	.550
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL20	Pearson Correlation Sig. (2-tailed)	0.009	-0.045	0.000	0.199	0.375	0.123	0.199	0.226	-0.121	0.410	.427	0.211	0.032	.432	0.026	0.177	0.284	0.071	.522	1	.535	0.219	0.291	0.280	0.326	.488
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL21	Pearson Correlation Sig. (2-tailed)	0.113	0.080	0.000	0.036	0.110	0.117	.513	-0.072	0.038	0.278	0.131	.453	-0.223	0.329	0.254	0.392	0.153	0.288	.502	.535	1	0.251	0.193	0.295	0.254	.479
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL22	Pearson Correlation Sig. (2-tailed)	0.279	0.216	0.000	0.177	0.250	0.251	0.022	0.147	-0.061	0.172	0.140	-0.149	0.072	-0.065	0.400	0.043	0.250	0.087	.546	0.219	0.251	1	.689	0.222	.482	.428
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL23	Pearson Correlation Sig. (2-tailed)	0.286	0.402	0.191	0.157	.422	0.408	-0.062	0.314	0.025	0.163	0.341	0.025	0.206	0.270	0.117	.460	0.213	.436	.517	0.291	0.193	.689	1	0.107	.506	.604
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL24	Pearson Correlation Sig. (2-tailed)	0.041	0.178	0.183	0.312	0.206	0.330	0.016	0.175	-0.022	.415	0.043	0.050	-0.129	0.178	0.172	0.302	-0.072	0.167	0.211	0.280	0.295	0.222	0.107	1	0.338	.429
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL25	Pearson Correlation Sig. (2-tailed)	0.316	0.212	0.268	.537	.510	0.096	-0.014	0.158	0.040	0.361	0.080	-0.040	0.080	0.084	0.373	0.346	0.390	-0.110	0.304	0.326	0.254	.482	.506	0.398	1	.547
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
TOTAL	Pearson Correlation Sig. (2-tailed)	.661	.508	.475	.661	.745	.644	0.413	.473	.428	.513	.482	.481	.467	.553	.463	.489	.434	.491	.550	.488	.479	.428	.604	.429	.547	1
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	

*. Correlation is significant at the 0.05 level (2-tailed).

**. Correlation is significant at the 0.01 level (2-tailed).

Reliability

Cronbach's Alpha	N of Items
0.868	25

Item-Total Statistics

	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
SOAL01	60.3478	100.964	0.617	0.858
SOAL02	60.5652	104.530	0.460	0.862
SOAL03	60.3313	106.976	0.443	0.864
SOAL04	61.3478	99.601	0.610	0.857
SOAL05	60.9130	103.265	0.727	0.858
SOAL06	60.9565	103.407	0.610	0.860
SOAL07	61.0435	106.407	0.367	0.865
SOAL08	61.1739	102.877	0.403	0.863
SOAL09	60.8696	102.209	0.335	0.867
SOAL10	61.2174	102.269	0.447	0.862
SOAL11	60.7826	102.814	0.413	0.863
SOAL12	61.0000	103.273	0.416	0.863
SOAL13	60.6087	105.522	0.421	0.863
SOAL14	60.3313	101.340	0.489	0.861
SOAL15	60.9565	105.043	0.411	0.863
SOAL16	60.8696	100.755	0.402	0.864
SOAL17	60.8696	103.664	0.361	0.865
SOAL18	60.7826	98.269	0.376	0.868
SOAL19	61.4783	100.079	0.476	0.861
SOAL20	60.5217	103.352	0.426	0.863
SOAL21	60.2609	106.656	0.444	0.864
SOAL22	61.0435	104.680	0.365	0.864
SOAL23	61.0870	104.265	0.569	0.861
SOAL24	61.1739	102.150	0.336	0.867
SOAL25	60.7391	98.747	0.460	0.862

Lampiran 2.3 Perhitungan Validitas Dan Reliabilitas Nilai Angket Posttest Dengan SPSS

SPSS VALIDITAS DAN RELIABILITAS POSTTEST

		Correlations																										
		SOAL01	SOAL02	SOAL03	SOAL04	SOAL05	SOAL06	SOAL07	SOAL08	SOAL09	SOAL10	SOAL11	SOAL12	SOAL13	SOAL14	SOAL15	SOAL16	SOAL17	SOAL18	SOAL19	SOAL20	SOAL21	SOAL22	SOAL23	SOAL24	SOAL25	TOTAL	
SOAL01	Pearson Correlation	1	0.134	.550	0.232	.419	0.259	.473	0.274	0.037	0.359	0.139	.427	0.310	0.411	.457	0.398	0.367	0.187	0.156	-0.007	0.412	.419	0.361	0.076	-0.049	.609	
	Sig. (2-tailed)		.544	0.007	0.286	0.046	0.232	0.023	0.205	0.868	0.092	0.526	0.042	0.150	0.052	0.028	0.060	0.085	0.394	0.477	0.976	0.051	0.047	0.091	0.730	0.825	0.002	
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL02	Pearson Correlation	0.134	1	0.079	.484	.415	0.382	0.094	0.148	0.343	0.112	0.201	0.241	0.000	0.248	0.309	-0.103	0.379	.416	0.319	0.332	0.208	0.295	0.235	.478	0.097	.548	
	Sig. (2-tailed)		.544		0.720	0.019	0.049	0.072	0.670	0.501	0.109	0.611	0.358	0.268	1.000	0.254	0.151	0.640	0.074	0.048	0.138	0.122	0.340	0.187	0.280	0.021	0.658	0.007
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL03	Pearson Correlation	.550	0.079	1	0.099	.482	.505	0.057	0.139	.470	0.298	-0.005	0.308	0.396	0.243	0.345	0.171	0.195	0.235	0.326	0.311	0.336	0.392	0.124	0.159	-0.033	.543	
	Sig. (2-tailed)		0.007	0.720		0.653	0.020	0.014	0.797	0.528	0.024	0.167	0.984	0.153	0.062	0.264	0.107	0.434	0.372	0.280	0.129	0.149	0.117	0.064	0.573	0.468	0.881	0.007
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL04	Pearson Correlation	0.232	.484	0.099	1	0.293	0.290	0.050	.575	0.180	0.062	0.152	0.310	.500	.478	0.294	0.250	0.325	0.374	0.301	.717	0.310	0.000	0.294	0.098	0.183	.621	
	Sig. (2-tailed)		0.286	0.019	0.653		0.175	0.180	0.822	0.004	0.411	0.779	0.490	0.150	0.015	0.021	0.173	0.250	0.131	0.078	0.163	0.000	0.150	1.000	0.173	0.657	0.404	0.002
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL05	Pearson Correlation	.419	.415	.482	0.293	1	0.214	.434	0.304	0.229	0.269	0.140	0.217	0.293	0.259	.490	0.217	.498	0.191	0.386	0.192	0.313	0.221	0.389	0.215	0.345	.645	
	Sig. (2-tailed)		0.046	0.049	0.020	0.175		0.573	0.038	0.158	0.294	0.214	0.525	0.321	0.175	0.232	0.018	0.320	0.016	0.383	0.069	0.381	0.146	0.312	0.067	0.324	0.107	0.001
	N	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
SOAL06	Pearson Correlation	0.259	0.382	.505	0.290	0.124	1	0.074	0.081	0.324	.476	-0.126	.431	0.347	0.185	0.143	0.222											

SOAL13	Pearson	0.310	0.000	0.336	.500	0.293	0.347	0.248	.447	0.360	0.186	0.227	0.232	1	0.266	0.234	0.250	0.130	0.214	0.060	0.287	0.387	0.064	0.000	-0.196	0.061	.486
	Correlati	0.150	1.000	0.062	0.015	0.175	0.104	0.253	0.032	0.031	0.336	0.297	0.286		0.221	0.173	0.250	0.555	0.327	0.185	0.185	0.068	0.772	1.000	0.371	0.782	0.019
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL14	Pearson	0.411	0.248	0.243	.478	0.259	0.185	0.067	.502	0.163	0.068	0.336	0.280	0.266	1	0.240	-0.205	0.105	0.126	.578	0.380	0.008	-0.122	.417	-0.060	-0.063	.463
	Correlati	0.052	0.254	0.264	0.021	0.232	0.397	0.760	0.015	0.457	0.757	0.117	0.195	0.221		0.270	0.348	0.634	0.566	0.004	0.074	0.973	0.579	0.048	0.785	0.775	0.026
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL15	Pearson	.457	0.309	0.345	0.294	.490	0.143	.427	0.255	0.228	0.194	0.319	.419	0.294	0.240	1	0.002	0.110	0.201	0.073	0.128	0.378	0.338	-0.003	0.066	0.112	.515
	Correlati	0.028	0.151	0.107	0.173	0.018	0.517	0.042	0.241	0.235	0.375	0.138	0.046	0.173	0.270		0.392	0.616	0.358	0.742	0.560	0.076	0.115	0.390	0.766	0.611	0.012
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL16	Pearson	0.398	-0.103	0.171	0.250	0.217	0.222	.447	0.142	0.073	0.286	-0.041	.523	0.250	-0.205	0.002	1	0.233	0.304	-0.234	0.118	0.344	0.261	0.140	0.077	0.382	.437
	Correlati	0.060	0.640	0.434	0.250	0.320	0.309	0.032	0.518	0.741	0.185	0.851	0.010	0.250	0.348	0.392		0.285	0.158	0.282	0.593	0.108	0.230	0.525	0.726	0.072	0.037
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL17	Pearson	0.367	0.379	0.195	0.325	.438	0.009	0.137	0.326	0.059	0.176	-0.051	-0.015	0.130	0.105	0.110	0.233	1	-0.002	0.192	0.275	0.226	-0.093	.528	0.263	0.407	.458
	Correlati	0.085	0.074	0.372	0.131	0.016	0.367	0.532	0.129	0.788	0.421	0.818	0.945	0.555	0.634	0.616	0.285		0.392	0.379	0.205	0.299	0.672	0.010	0.225	0.054	0.028
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL18	Pearson	0.187	.416	0.235	0.374	0.191	0.268	0.113	0.029	.438	-0.133	0.242	.567	0.214	0.126	0.201	0.304	-0.002	1	0.024	0.280	.477	0.306	0.127	0.363	0.016	.522
	Correlati	0.394	0.048	0.280	0.078	0.383	0.217	0.607	0.835	0.015	0.545	0.266	0.005	0.327	0.566	0.358	0.158	0.932		0.315	0.196	0.021	0.156	0.565	0.088	0.943	0.011
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL19	Pearson	0.156	0.319	0.326	0.301	0.386	0.191	0.020	0.253	0.099	0.179	0.247	-0.091	0.060	.578	0.073	-0.234	0.192	0.024	1	.446	0.091	0.070	.524	0.331	0.145	.454
	Correlati	0.477	0.138	0.129	0.163	0.069	0.383	0.328	0.244	0.653	0.413	0.256	0.681	0.785	0.004	0.742	0.282	0.379	0.315		0.033	0.681	0.750	0.010	0.122	0.509	0.030
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL20	Pearson	-0.007	0.332	0.311	.717	0.192	0.182	-0.260	.446	0.395	-0.103	0.205	0.240	0.287	0.380	0.128	0.118	0.275	0.280	.446	1	0.382	-0.190	0.275	0.267	0.261	.511
	Correlati	0.376	0.122	0.149	0.000	0.381	0.406	0.231	0.033	0.062	0.641	0.348	0.270	0.185	0.074	0.560	0.593	0.205	0.196	0.033		0.072	0.386	0.205	0.218	0.230	0.013
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL21	Pearson	0.412	0.208	0.336	0.310	0.313	-0.055	0.150	0.205	0.232	-0.245	0.304	0.343	0.387	0.008	0.378	0.344	0.226	.477	0.091	0.382	1	0.003	0.297	0.182	0.017	.479
	Correlati	0.051	0.340	0.117	0.150	0.146	0.805	0.435	0.348	0.287	0.259	0.159	0.109	0.068	0.973	0.076	0.108	0.239	0.021	0.681	0.072		0.389	0.169	0.405	0.938	0.021
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL22	Pearson	.419	0.285	0.392	0.000	0.221	.489	.427	-0.199	0.280	.656	0.112	0.274	0.064	-0.122	0.338	0.261	-0.093	0.306	0.070	-0.190	0.003	1	-0.096	0.341	0.102	.438
	Correlati	0.047	0.187	0.064	1.000	0.312	0.018	0.042	0.363	0.195	0.001	0.611	0.205	0.772	0.579	0.115	0.230	0.672	0.156	0.750	0.386	0.389		0.662	0.111	0.643	0.037
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL23	Pearson	0.361	0.235	0.124	0.294	0.389	-0.118	0.210	0.202	0.062	0.122	0.236	0.150	0.000	.417	-0.003	0.140	.528	0.127	.524	0.275	0.297	-0.096	1	0.110	0.304	.475
	Correlati	0.091	0.280	0.573	0.173	0.067	0.591	0.336	0.356	0.777	0.579	0.278	0.495	1.000	0.048	0.390	0.525	0.010	0.565	0.010	0.205	0.169	0.662		0.616	0.159	0.022
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL24	Pearson	0.076	.478	0.159	0.098	0.215	0.133	0.037	0.053	0.172	0.011	0.339	0.083	-0.196	-0.060	0.066	0.077	0.263	0.363	0.331	0.267	0.182	0.341	0.110	1	0.363	.418
	Correlati	0.730	0.021	0.468	0.657	0.324	0.546	0.867	0.809	0.434	0.360	0.114	0.706	0.371	0.785	0.766	0.726	0.225	0.088	0.122	0.218	0.405	0.111	0.616		0.088	0.047
	Sig. (2-	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
	tailed)																										
	N																										
SOAL25	Pearson	-0.049	0.097	-0.033	0.183	0.345	-0.118	.494	0.171	0.323	.421	.447	0.049	0.061	-0.063	0.112	0.382	0.407	0.016	0.145	0.261	0.017	0.102	0.304	0.363	1	.460
	Correlati	0.825	0.658	0.881	0.404	0.107	0.591	0.017	0.436	0.133	0.046	0.032	0.825	0.782	0.775	0.611	0.072	0.054	0.343	0.509	0.230	0.938	0.643	0.159	0.088		0.027
	Sig.																										

Reliability Statistics	
Cronbach's	
Alpha	N of Items
.866	25

	Item-Total Statistics			
	Scale Mean if Item Deleted	Scale Variance if Item Deleted	Corrected Item-Total Correlation	Cronbach's Alpha if Item Deleted
SOAL01	72.2609	109.838	.564	.858
SOAL02	72.4348	109.893	.492	.859
SOAL03	72.3043	112.585	.504	.860
SOAL04	72.4783	108.897	.573	.857
SOAL05	72.8696	111.209	.612	.858
SOAL06	72.3043	110.221	.382	.862
SOAL07	72.4348	107.802	.418	.862
SOAL08	72.8696	110.937	.391	.862
SOAL09	72.3913	109.249	.450	.860
SOAL10	72.3478	110.874	.380	.862
SOAL11	72.2174	111.814	.421	.861
SOAL12	72.6957	110.221	.538	.858
SOAL13	72.4783	111.261	.427	.861
SOAL14	72.3043	109.403	.380	.863
SOAL15	72.8261	110.968	.460	.860
SOAL16	72.3478	109.510	.346	.864
SOAL17	72.5217	111.079	.391	.862
SOAL18	72.5217	108.079	.445	.860
SOAL19	72.9565	110.589	.381	.862
SOAL20	72.2609	110.838	.454	.860
SOAL21	72.2609	111.929	.424	.861
SOAL22	72.0870	111.356	.368	.863
SOAL23	72.6087	109.976	.402	.862
SOAL24	72.5652	109.802	.325	.865
SOAL25	72.1304	110.573	.388	.862

Lampiran 2.4 Perhitungan Uji Normalitas Nilai Angket Pretest dan Posttest Dengan SPSS

UJI NORMALITAS

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
PRETEST	23	100.0%	0	0.0%	23	100.0%
POSTTEST	23	100.0%	0	0.0%	23	100.0%

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
PRETEST	.150	23	.197	.955	23	.365
POSTTEST	.129	23	.200*	.954	23	.353

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Lampiran 2.5 Perhitungan Uji Paired T Test Nilai Angket Pretest dan Posttest Dengan SPSS

UJI PAIRED T TEST

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	PRETEST	63.3913	23	10.53884	2.19750
	POSTTEST	75.4783	23	10.91233	2.27538

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	PRETEST & POSTTEST	23	.762	.000

Paired Samples Test

		Paired Differences			95% Confidence Interval of the Difference		t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	Lower	Upper			
Pair 1	PRETEST - POSTTEST	-12.08696	7.40953	1.54499	-15.29108	-8.88283	-7.823	22	.000