

LAMPIRAN3

No. Resp	Jawaban Item Pernyataan																				Skor Total
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
1	3	5	4	4	3	4	4	3	3	3	4	3	3	4	5	4	3	3	4	2	71
2	5	5	5	5	5	5	4	4	5	5	5	5	5	5	5	4	5	5	5	5	97
3	4	5	4	5	4	5	4	4	4	5	5	4	5	3	5	3	5	3	5	3	85
4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	100
5	5	5	5	5	3	3	5	4	5	5	5	5	4	5	5	5	5	5	5	5	94
6	4	4	4	4	4	2	5	3	3	4	4	4	4	5	5	5	5	5	5	5	84
7	5	5	4	4	4	2	5	4	4	5	5	5	5	5	5	4	5	4	5	4	89
8	5	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	5	5	5	5	99
9	5	5	5	5	5	5	4	5	5	5	5	5	5	3	5	3	5	4	5	3	92
10	5	5	4	5	4	4	5	5	5	5	5	5	5	4	2	5	4	5	5	5	92
11	4	4	5	5	4	4	5	3	5	4	5	4	5	5	5	4	5	5	4	4	89
12	5	3	5	3	5	4	5	5	4	5	4	5	4	3	5	5	3	5	4	5	87
13	5	5	4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	83
14	4	4	4	4	4	4	5	4	4	5	5	5	5	5	5	5	5	5	5	4	91
15	5	3	3	3	5	3	5	5	3	5	3	5	3	3	4	5	4	4	3	5	79
16	5	5	5	4	4	5	5	4	5	5	5	4	5	5	5	4	5	5	5	5	95
17	5	3	4	3	4	3	5	5	5	4	5	4	5	5	5	5	5	5	3	5	88
18	5	5	5	4	5	4	5	4	4	5	5	5	5	5	4	3	4	2	5	2	86
19	5	5	4	4	5	4	4	4	4	5	4	5	3	5	5	4	4	4	4	4	86
20	5	5	4	5	4	4	5	4	5	4	5	4	5	5	5	4	5	5	5	4	92
Jumlah	94	91	88	86	87	79	93	84	87	93	93	91	90	89	94	86	91	88	91	84	1779
r Hitung	0.571	0.287	0.618	0.546	0.243	0.4	0.151	0.409	0.834	0.581	0.698	0.538	0.698	0.43	0.101	0.18	0.652	0.592	0.563	0.519	
r Tabel	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	0,444	
Ket.	V	TV	V	V	TV	TV	TV	TV	V	V	V	V	V	TV	TV	TV	V	V	V	V	

Rekap Data Y

$\sum X$	94	91	88	86	87	79	93	84	87	93	93	91	90	89	94	86	91	88	91	84
$\sum Y$	1779																			
$\sum X Y$	8404	8123	7876	7702	7760	7077	8268	7509	7820	8317	8326	8137	8075	7963	8371	7667	8153	7896	8145	7540
$\sum X^2$	448	425	394	380	387	329	437	362	389	439	439	421	416	409	452	380	423	402	423	372
$\sum Y^2$	159143																			
20* $\sum XY$	168080	162460	157520	154040	155200	141540	165360	150180	156400	166340	166520	162740	161500	159260	167420	153340	163060	157920	162900	150800
20* $\sum X^2$	8960	8500	7880	7600	7740	6580	8740	7240	7780	8780	8780	8420	8320	8180	9040	7600	8460	8040	8460	7440
($\sum x$) ²	8836	8281	7744	7396	7569	6241	8649	7056	7569	8649	8649	8281	8100	7921	8836	7396	8281	7744	8281	7056
20* $\sum X^2 - (\sum X)^2$	124	219	136	204	171	339	91	184	211	131	131	139	220	259	204	204	179	296	179	384
20* $\sum Y^2$	3182860																			
($\sum Y$) ²	3164841																			
20* $\sum Y^2 - (\sum Y)^2$	18019																			
$\frac{\sum X * \sum Y}{\sum Y}$	167226	161889	156552	152994	154773	140541	165447	149436	154773	165447	165447	161889	160110	158331	167226	152994	161889	156552	161889	149436
r hitung	0.57	0.28	0.618	0.54	0.243	0.404	0.150	0.408	0.834	0.581	0.6983	0.537	0.698	0.430	0.101	0.180	0.65	0.592	0.56	0.518

Uji Validitas Variabel Y

Pengujian validitas dilakukan menggunakan rumus Korelasi Pearson

$$r_{xy} = \frac{N \cdot \sum XY - (\sum X)(\sum Y)}{\sqrt{[N \cdot \sum X^2 - (\sum X)^2][N \cdot \sum Y^2 - (\sum Y)^2]}}$$

$$r_{xy} = \frac{20(8404) - (94)(1779)}{\sqrt{((20(448) - (94)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{168080 - 167226}{\sqrt{(124)(18019)}} = \frac{854}{1494,776} = 0,571323$$

$$r_{xy} = \frac{20(8123) - (91)(1779)}{\sqrt{((20(425) - (91)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{162460 - 161889}{\sqrt{(219)(18019)}} = \frac{571}{1986,4946} = 0,287441$$

$$r_{xy} = \frac{20(7876) - (88)(1779)}{\sqrt{((20(394) - (88)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{157520 - 156552}{\sqrt{(136)(18019)}} = \frac{968}{1565,4341} = 0,61836$$

$$r_{xy} = \frac{20(7702) - (86)(1779)}{\sqrt{((20(380) - (86)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{154040 - 152994}{\sqrt{(204)(18019)}} = \frac{1046}{1917,2574} = 0,5456$$

$$r_{xy} = \frac{20(7760) - (87)(1779)}{\sqrt{((20(387) - (87)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{155200 - 154773}{\sqrt{(171)(18019)}} = \frac{427}{1755,348} = 0,2432$$

$$r_{xy} = \frac{20(7077) - (79)(1779)}{\sqrt{((20(329) - (79)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{141540 - 140541}{\sqrt{(339)(18019)}} = \frac{999}{2471,52} = 0,4042$$

$$r_{xy} = \frac{20(8268) - (93)(1779)}{\sqrt{((20(437) - (93)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{165360 - 165447}{\sqrt{(91)(18019)}} = \frac{87}{1280} = 0,15072$$

$$r_{xy} = \frac{20(7509) - (84)(1779)}{\sqrt{((20(362) - (84)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{150180 - 149436}{\sqrt{(184)(18019)}} = \frac{744}{1820,85} = 0,486$$

$$r_{xy} = \frac{20(7820) - (87)(1779)}{\sqrt{((20(389) - (87)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{156400 - 154773}{\sqrt{(211)(18019)}} = \frac{1627}{1949,87} = 0,8341$$

$$r_{xy} = \frac{20(8317) - (93)(1779)}{\sqrt{((20(439) - (93)^2)(20(159143) - (1779)^2))}}$$

$$r_{xy} = \frac{166340 - 165447}{\sqrt{(131)(18019)}} = \frac{893}{1536,38} = 0,5812$$

$$r_{xy} = \frac{20(8326)-(93)(1779)}{\sqrt{((20(439)-(93)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{166520-165447}{\sqrt{(131)(18019)}} = \frac{1073}{1536,38} = \mathbf{0,6984}$$

$$r_{xy} = \frac{20(8137)-(91)(1779)}{\sqrt{((20(421)-(91)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{162740-161889}{\sqrt{(139)(18019)}} = \frac{851}{1582,68} = \mathbf{0,5377}$$

$$r_{xy} = \frac{20(8075)-(90)(1779)}{\sqrt{((20(416)-(90)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{161500-160110}{\sqrt{(220)(18019)}} = \frac{1390}{1991,02} = \mathbf{0,698}$$

$$r_{xy} = \frac{20(7963)-(89)(1779)}{\sqrt{((20(409)-(89)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{159260-158331}{\sqrt{(259)(18019)}} = \frac{929}{2160,30} = \mathbf{0,433}$$

$$r_{xy} = \frac{20(8371)-(94)(1779)}{\sqrt{((20(452)-(94)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{167420-167226}{\sqrt{(259)(18019)}} = \frac{194}{1917,25} = \mathbf{0,1012}$$

$$r_{xy} = \frac{20(7667)-(86)(1779)}{\sqrt{((20(380)-(86)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{153340-152994}{\sqrt{(204)(18019)}} = \frac{346}{1917,257} = \mathbf{0,18047}$$

$$r_{xy} = \frac{20(8153)-(91)(1779)}{\sqrt{((20(423)-(91)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{163060-161889}{\sqrt{(179)(18019)}} = \frac{1171}{1795,94} = \mathbf{0,652}$$

$$r_{xy} = \frac{20(7896)-(88)(1779)}{\sqrt{((20(402)-(88)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{157920-156552}{\sqrt{(296)(18019)}} = \frac{1368}{2309,46} = \mathbf{0,59235}$$

$$r_{xy} = \frac{20(8145)-(91)(1779)}{\sqrt{((20(423)-(91)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{162900-161889}{\sqrt{(179)(18019)}} = \frac{1011}{1795,94} = \mathbf{0,562}$$

$$r_{xy} = \frac{20(7540)-(84)(1779)}{\sqrt{((20(372)-(84)^2(20(159143)-(1799)^2))}}$$

$$r_{xy} = \frac{150800-149436}{\sqrt{(384)(18019)}} = \frac{1364}{2630,4} = \mathbf{0,518}$$

Dari hasil perhitungan seluruh item ditampilkan pada tabel berikut

No Item	r hitung	r tabel	Ket
1	0,571	0,444	Valid
2	0,287	0,444	Tidak Valid
3	0,618	0,444	Valid
4	0,545	0,444	Valid
5	0,243	0,444	Tidak Valid
6	0,404	0,444	Tidak Valid
7	0,150	0,444	Tidak Valid
8	0,408	0,444	Tidak Valid
9	0,834	0,444	Valid
10	0,581	0,444	Valid
11	0,698	0,444	Valid
12	0,537	0,444	Valid
13	0,698	0,444	Valid
14	0,43	0,444	Tidak Valid
15	0,101	0,444	Tidak Valid
16	0,180	0,444	Tidak Valid
17	0,652	0,444	Valid
18	0,592	0,444	Valid
19	0,562	0,444	Valid
20	0,518	0,444	Valid

Dari hasil perhitungan seperti tercantum pada tabel diatas maka terdapat 8 item pernyataan pada variabel Y yang dinyatakan tidak valid dan harus diperbaiki atau dikeluarkan dari instrument.

Uji Reliabilitas Variabel Y

Uji reliabilitas instrument dengan alpha cronbach, terlebih dahulu menghitung varians masing masing butir dengan rumus berikut,

$$\sigma_1^2 = \frac{\sum X^2 - \frac{(\sum X)^2}{n}}{n-1}$$

$$\sigma_1^2 = \frac{448 - \frac{(94)^2}{20}}{19} = 0,326$$

$$\sigma_1^2 = \frac{425 - \frac{(91)^2}{20}}{19} = 0,576$$

$$\sigma_1^2 = \frac{394 - \frac{(88)^2}{20}}{19} = 0,35$$

$$\sigma_1^2 = \frac{380 - \frac{(86)^2}{20}}{19} = 0,536$$

$$\sigma_1^2 = \frac{387 - \frac{(87)^2}{20}}{19} = 0,45$$

$$\sigma_1^2 = \frac{329 - \frac{(79)^2}{20}}{19} = 0,89$$

$$\sigma_1^2 = \frac{437 - \frac{(93)^2}{20}}{19} = 0,239$$

$$\sigma_1^2 = \frac{362 - \frac{(84)^2}{20}}{19} = 0,484$$

$$\sigma_1^2 = \frac{389 - \frac{(87)^2}{20}}{19} = 0,555$$

$$\sigma_1^2 = \frac{439 - \frac{(93)^2}{20}}{19} = 0,344$$

$$\sigma_1^2 = \frac{439 - \frac{(93)^2}{20}}{19} = 0,344$$

$$\sigma_1^2 = \frac{421 - \frac{(91)^2}{20}}{19} = 0,365$$

$$\sigma_1^2 = \frac{416 - \frac{(90)^2}{20}}{19} = 0,578$$

$$\sigma_1^2 = \frac{409 - \frac{(89)^2}{20}}{19} = 0,681$$

$$\sigma_1^2 = \frac{452 - \frac{(94)^2}{20}}{19} = 0,536$$

$$\sigma_1^2 = \frac{380 - \frac{(86)^2}{20}}{19} = 0,536$$

$$\sigma_1^2 = \frac{423 - \frac{(91)^2}{20}}{19} = 0,471$$

$$\sigma_1^2 = \frac{402 - \frac{(88)^2}{20}}{19} = 0,778$$

$$\sigma_1^2 = \frac{423 - \frac{(91)^2}{20}}{19} = 0,471$$

$$\sigma_1^2 = \frac{372 - \frac{(84)^2}{20}}{19} = 1,01$$

Dari hasil perhitungan varians seluruh item ditampilkan pada tabel berikut

No item	σ_1^2
1	0,326
2	0,576
3	0,35
4	0,536
5	0,45
6	0,89
7	0,239
8	0,484
9	0,555
10	0,344
11	0,344
12	0,365
13	0,578
14	0,681
15	0,536
16	0,536
17	0,471
18	0,778
19	0,471
20	1,01
$\sum s_i^2$	9,984

Menghitung varians total item sebagai berikut

$$\sigma_1^2 = \frac{159143 - \frac{(1779)^2}{20}}{19} = 47,394$$

Menghitung nilai Alpha Cronbach dengan rumus

$$r_{11} = \left(\frac{k}{k-1} \right) \left(1 - \frac{\sum s_i^2}{s_t^2} \right)$$

$$r_{11} = \left(\frac{20}{19} \right) \left(1 - \frac{9,984}{47,394} \right)$$

$$r_{11} = (1,053)(0,7894)$$

$$r_{11} = 0,8312 \text{ (reliabilitasnya tinggi)}$$

