

LAMPIRAN

Data Antropometri

NO	TS	TP	TSE	TSE	Dimensi	PTK	LTK	LB	LP	DGT
1	180	47	108	131	202	23	11	48	89	29
2	187	43	100	131	200	23	16	45	81	22
3	182	47	106	134	209	21	13	46	80	21
4	184	41	103	132	201	22	12	46	87	24
5	188	49	107	138	202	26	15	43	89	21
6	180	43	109	136	207	20	14	41	80	23
7	180	44	105	139	202	21	12	42	83	24
8	186	42	101	135	202	28	11	41	86	25
9	188	46	100	131	200	29	10	40	84	22
10	182	47	109	130	200	27	19	49	81	27
11	182	44	106	135	209	22	15	45	87	28
12	185	48	104	138	206	21	14	46	88	21
13	181	49	109	134	208	24	15	44	88	22
14	184	44	104	134	204	28	19	44	87	22
15	189	42	107	136	206	20	14	46	88	22
16	181	44	107	137	208	29	10	41	89	23
17	188	46	108	134	209	27	19	40	88	22
18	187	41	105	131	201	28	14	48	80	24
19	185	49	109	130	200	22	15	46	84	24
20	183	47	101	132	201	21	13	40	82	23
21	185	45	100	135	206	20	12	48	87	25
22	188	45	106	130	201	23	11	45	85	27
23	187	45	102	133	206	23	13	46	83	28
24	189	43	103	132	200	23	12	41	89	20
25	183	44	109	131	209	25	14	40	89	21
26	181	41	108	135	201	24	15	44	80	25
27	182	48	105	135	208	27	14	41	85	21
28	187	49	104	136	205	26	10	43	83	28
29	180	43	109	138	209	24	14	48	85	21
30	183	41	102	135	201	23	18	40	88	23
31	183	45	101	134	204	22	19	48	83	23
32	184	46	106	133	206	24	14	47	85	26
33	186	48	105	134	203	21	15	49	88	28
34	180	49	109	134	200	21	13	44	89	23
35	181	44	104	135	201	23	14	43	85	23
36	182	49	100	133	206	24	13	41	88	27
37	180	41	106	132	209	26	11	44	83	25
38	189	44	100	133	208	24	11	46	82	21
39	189	42	106	131	205	27	12	42	89	24
40	188	46	105	130	204	20	11	43	87	23

Perhitungan Data Antropometri TB

KELAS	Tinggi Badan (TB)					Σxi	$\bar{x}$	$(xi - \bar{x})^2$	Σxi^2
NO	1	2	3	4	5				
1	180	187	182	184	188	921	184,2	44,80313	169693
2	180	180	186	188	182	916	183,2	58,05312	167864
3	182	185	181	184	189	921	184,2	38,80313	169687
4	181	188	187	185	183	924	184,8	34,45313	170788
5	185	188	187	189	183	932	186,4	46,85313	173748
6	181	182	187	180	183	913	182,6	42,40312	166743
7	183	184	186	180	181	914	182,8	32,95312	167102
8	182	180	189	189	188	928	185,6	82,65313	172310
Σ						7369	1473,8	380,975	1357935

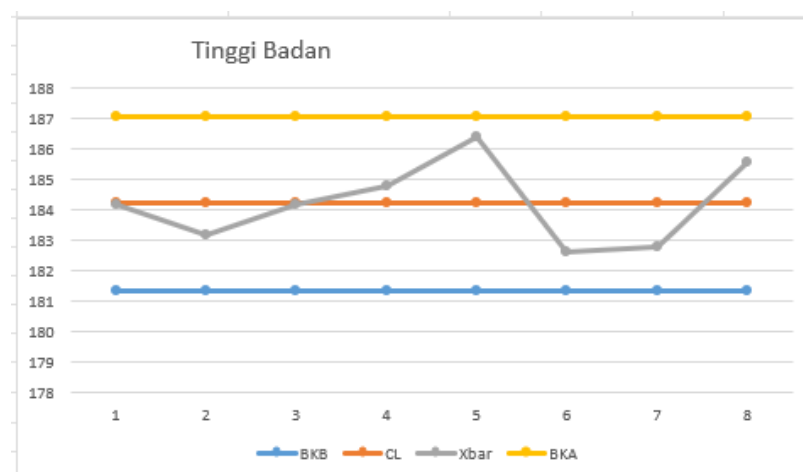
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (xi - \bar{x})^2 / N - 1}$	$N' = Ztab/\alpha [\sqrt{N} \sum xi^2 - (\sum xi)^2 / \sum xi]^2$			
$Sx = S / \sqrt{k}$	$Z = T . KEYAKINAN + 1 - T. KEYAKINAN / 2$			
Ztab = NORMSINV (Z)				
$BKA = \bar{X} + Ztab . Sx$				
$BKB = \bar{X} - Ztab . Sx$				

Hasil Perhitungan TB

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		184,225	181,3544	184,225	184,2	187,0956
S		3,125474	181,3544	184,225	183,2	187,0956
Sx		1,397755	181,3544	184,225	184,2	187,0956
Z		0,98	181,3544	184,225	184,8	187,0956
Ztab		2,053749	181,3544	184,225	186,4	187,0956
BKA		187,0956	181,3544	184,225	182,6	187,0956
BKB		181,3544	181,3544	184,225	182,8	187,0956
N'		0,011527	181,3544	184,225	185,6	187,0956
N		40				

Grafik Pola TB



Perhitungan Data Antropometri Tpo

KELAS	Tinggi Popliteal (Tpo)					$\sum x_i$	$\bar{x}$	$(x_i - \bar{x})^2$	$\sum x_i^2$
NO	1	2	3	4	5				
1	47	43	47	41	49	227	45,4	43,90313	10349
2	43	44	42	46	47	222	44,4	19,15312	9874
3	44	48	49	44	42	227	45,4	35,90313	10341
4	44	46	41	49	47	227	45,4	37,90313	10343
5	45	45	45	43	44	222	44,4	5,153125	9860
6	41	48	49	43	41	222	44,4	61,15312	9916
7	45	46	48	49	44	232	46,4	26,65313	10782
8	49	41	44	42	46	222	44,4	43,15312	9898
$\sum$						1801	360,2	272,975	81363

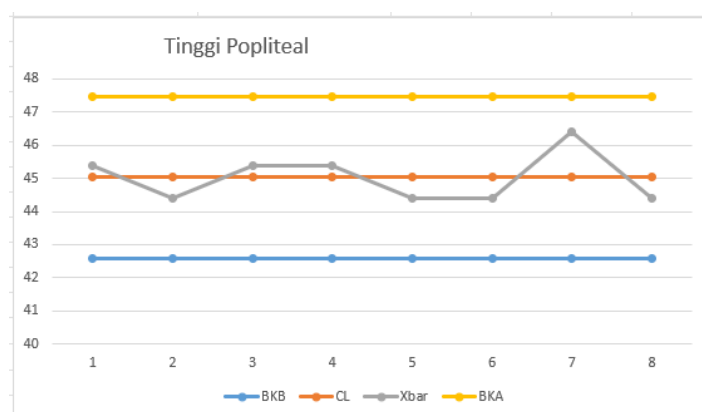
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N} \sum x_i^2 - (\sum x_i)^2 / \sum x_i]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan Tpo

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		45,025	42,59508	45,025	45,4	47,45492
S		2,64563	42,59508	45,025	44,4	47,45492
Sx		1,183162	42,59508	45,025	45,4	47,45492
Z		0,98	42,59508	45,025	45,4	47,45492
Ztab		2,053749	42,59508	45,025	44,4	47,45492
BKA		47,45492	42,59508	45,025	44,4	47,45492
BKB		42,59508	42,59508	45,025	46,4	47,45492
N'		0,138272	42,59508	45,025	44,4	47,45492
N		40				

Grafik Pola Tpo



Perhitungan Data Antropometri TSB

KELAS NO	Tinggi Siku Berdiri					$\sum xi$	$\bar{x}$	$(xi - \bar{x})^2$	$\sum xi^2$
	1	2	3	4	5				
1	108	100	106	103	107	524	104,8	42,9125	54958
2	109	105	101	100	109	524	104,8	72,9125	54988
3	106	104	109	104	107	530	106	23,5125	56198
4	107	108	105	109	101	530	106	45,5125	56220
5	100	106	102	103	109	520	104	54,5125	54130
6	108	105	104	109	102	528	105,6	35,3125	55790
7	101	106	105	109	104	525	105	34,0125	55159
8	100	106	100	106	105	517	103,4	51,2125	53497
$\sum$						4198	839,6	359,9	440940

Rumus Perhitungan

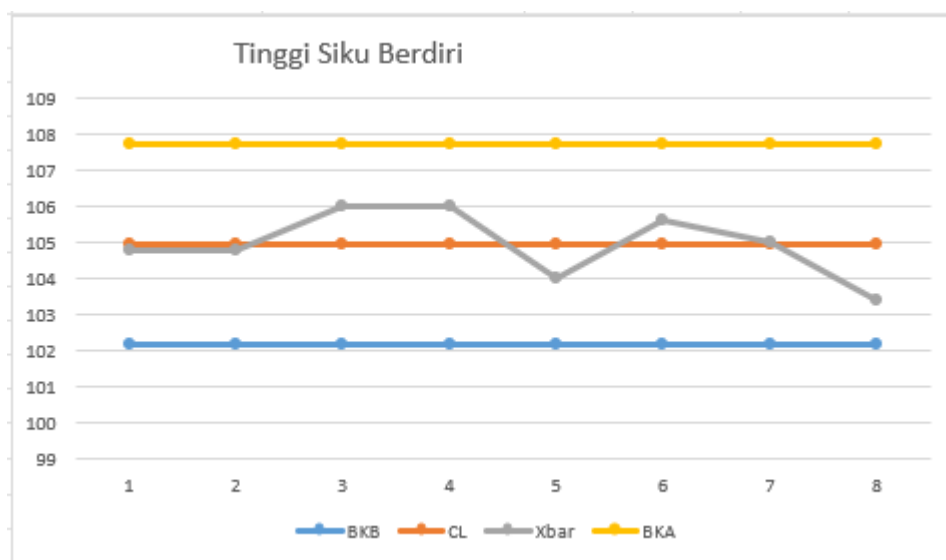
RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum x_i^2 - (\sum x_i)^2 / \sum x_i}]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan TSB

HASIL		
$\bar{x}$		104,95
S		3,0378
Sx		1,35854
Z		0,98
Ztab		2,05375
BKA		107,74
BKB		102,16
N'		0,03355
N		40

BKB	CL	Xbar	BKA
102,16	104,95	104,8	107,74
102,16	104,95	104,8	107,74
102,16	104,95	106	107,74
102,16	104,95	106	107,74
102,16	104,95	104	107,74
102,16	104,95	105,6	107,74
102,16	104,95	105	107,74
102,16	104,95	103,4	107,74

Grafik Pola TSB



Perhitungan Data Antropometri TBB

KELAS	Tinggi Bahu Berdiri					$\sum x_i$	$\bar{x}$	$(x_i - \bar{x})^2$	$\sum x_i^2$
NO	1	2	3	4	5				
1	131	131	134	132	138	666	133,2	35,92812	88746
2	136	139	135	131	130	671	134,2	56,17813	90103
3	135	138	134	134	136	677	135,4	26,07813	91677
4	137	134	131	130	132	664	132,8	34,62812	88210
5	135	130	133	132	131	661	132,2	25,67812	87399
6	135	135	136	138	135	679	135,8	29,37813	92215
7	134	133	134	134	135	670	134	2,528125	89782
8	133	132	133	131	130	659	131,8	24,37812	86863
$\sum$						5347	1069,4	234,775	714995

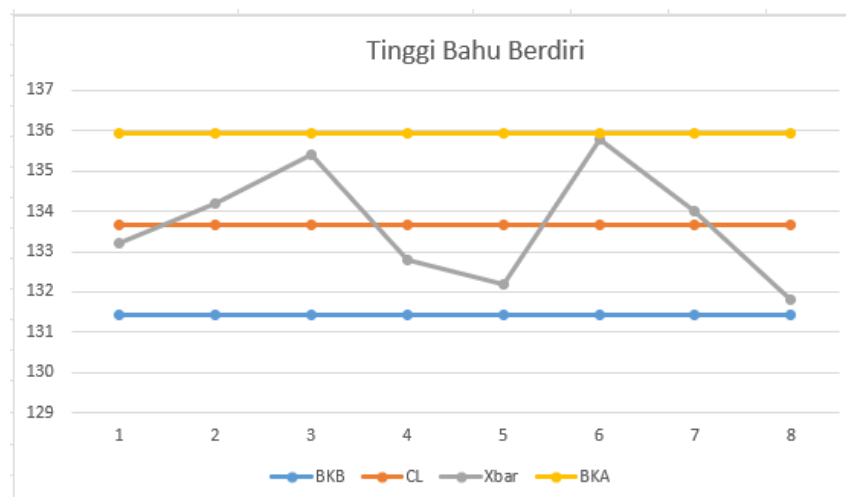
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum x_i^2 - (\sum x_i)^2 / \sum x_i}]^2$			
$S_x = S / \sqrt{K}$	$Z = T . KEYAKINAN + 1 - T . KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} . S_x$				
$BKB = \bar{X} - Z_{tab} . S_x$				

Hasil Perhitungan TBB

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		133,675	131,4215	133,675	133,2	135,9285
S		2,453543	131,4215	133,675	134,2	135,9285
Sx		1,097258	131,4215	133,675	135,4	135,9285
Z		0,98	131,4215	133,675	132,8	135,9285
Ztab		2,053749	131,4215	133,675	132,2	135,9285
BKA		135,9285	131,4215	133,675	135,8	135,9285
BKB		131,4215	131,4215	133,675	134	135,9285
N'		0,013492	131,4215	133,675	131,8	135,9285
N		40				

Grafik Pola TBB



Perhitungan Data Antropometri TJTA

KELAS	Tinggi Jangkauan Tangan Ke Atas					$\sum x_i$	$\bar{x}$	$(x_i - \bar{x})^2$	$\sum x_i^2$
NO	1	2	3	4	5				
1	202	200	209	201	202	1014	202,8	60,95313	205690
2	207	202	202	200	200	1011	202,2	53,30313	204457
3	209	206	208	204	206	1033	206,6	43,40312	213433
4	208	209	201	200	201	1019	203,8	75,70313	207747
5	206	201	206	200	209	1022	204,4	57,35313	208954
6	201	208	205	209	201	1024	204,8	58,45312	209772
7	204	206	203	200	201	1014	202,8	32,95313	205662
8	206	209	208	205	204	1032	206,4	40,85312	213022
$\sum$						8169	1633,8	422,975	1668737

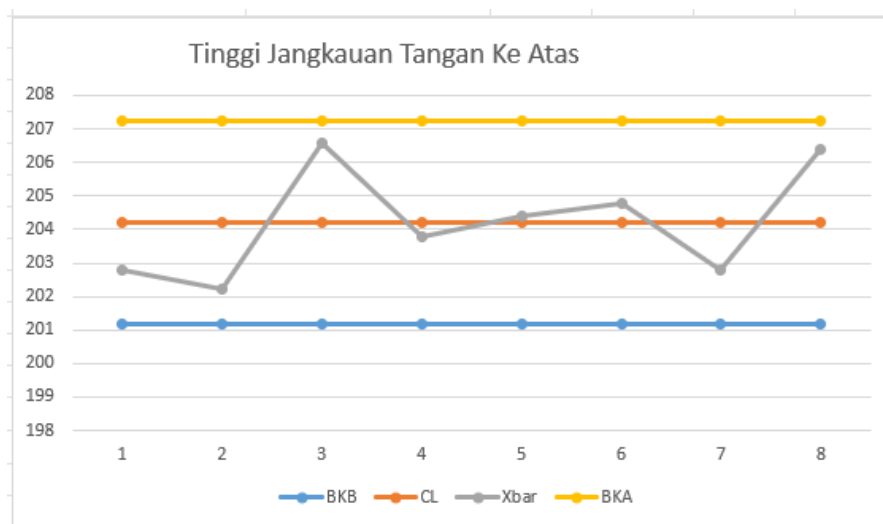
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N} \sum x_i^2 - (\sum x_i)^2 / \sum x_i]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan TJTA

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		204,225	201,2003	204,225	202,8	207,2497
S		3,293253	201,2003	204,225	202,2	207,2497
Sx		1,472787	201,2003	204,225	206,6	207,2497
Z		0,98	201,2003	204,225	203,8	207,2497
Ztab		2,053749	201,2003	204,225	204,4	207,2497
BKA		207,2497	201,2003	204,225	204,8	207,2497
BKB		201,2003	201,2003	204,225	202,8	207,2497
N'		0,010414	201,2003	204,225	206,4	207,2497
N		40				

Grafik Pola TJTA



Perhitungan Data Antropometri PTK

KELAS NO	Panjang Telapak Kaki					$\sum xi$	$\bar{x}$	$(xi - \bar{x})^2$	$\sum xi^2$
	1	2	3	4	5				
1	23	23	21	22	26	115	23	17,2	2659
2	20	21	28	29	27	125	25	77,2	3195
3	22	21	24	28	20	115	23	43,2	2685
4	29	27	28	22	21	127	25,4	66	3279
5	20	23	23	23	25	114	22,8	17,8	2612
6	24	27	26	24	23	124	24,8	15,8	3086
7	22	24	21	21	23	111	22,2	19,6	2471
8	24	26	24	27	20	121	24,2	29,6	2957
$\sum$						952	190,4	286,4	22944

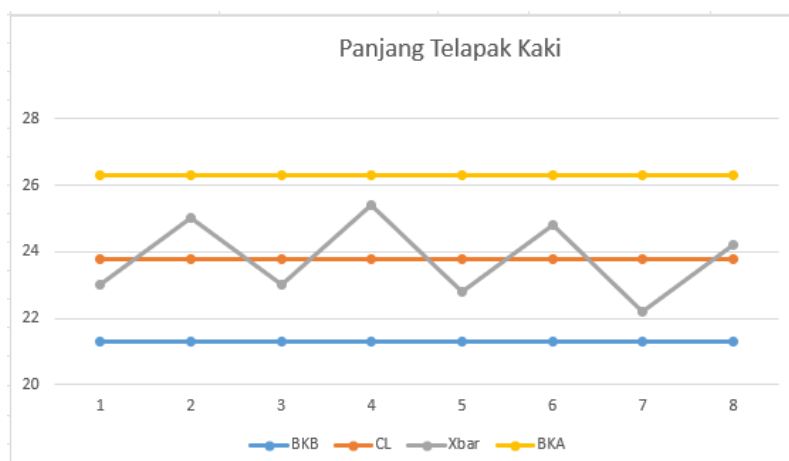
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (xi - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum xi^2 - (\sum xi)^2 / \sum xi}]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan PTK

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		23,8	21,31105	23,8	23	26,28895
S		2,709906	21,31105	23,8	25	26,28895
Sx		1,211907	21,31105	23,8	23	26,28895
Z		0,98	21,31105	23,8	25,4	26,28895
Ztab		2,053749	21,31105	23,8	22,8	26,28895
BKA		26,28895	21,31105	23,8	24,8	26,28895
BKB		21,31105	21,31105	23,8	22,2	26,28895
N'		0,519202	21,31105	23,8	24,2	26,28895
N		40				

Grafik Pola PTK



Perhitungan Data Antropometri LTK

KELAS NO	Lebar Telapak Kaki					Σx_i	$\bar{x}$	$(x_i - \bar{x})^2$	Σx_i^2
	1	2	3	4	5				
1	11	16	13	12	15	67	13,4	17,5781	915
2	14	12	11	10	19	66	13,2	51,9281	922
3	15	14	15	19	14	77	15,4	32,0781	1203
4	10	19	14	15	13	71	14,2	44,1781	1051
5	12	11	13	12	14	62	12,4	13,3281	774
6	15	14	10	14	18	71	14,2	34,1781	1041
7	19	14	15	13	14	75	15	30,7781	1147
8	13	11	11	12	11	58	11,6	24,7281	676
Σ						547	109,4	248,775	7729

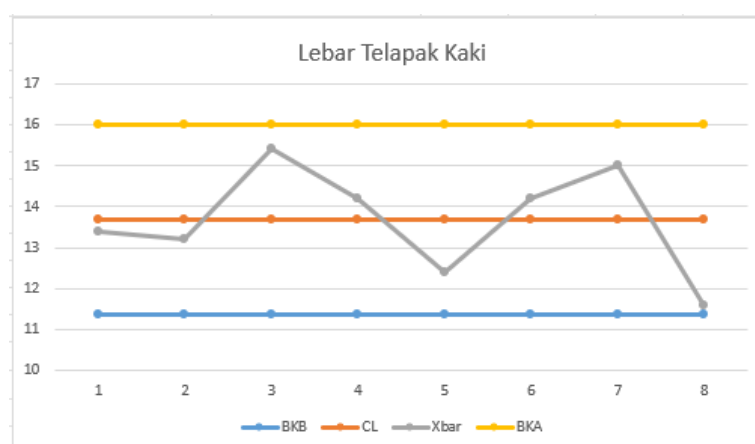
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum x_i^2 - (\sum x_i)^2} / \sum x_i]^2$			
$S_x = S / \sqrt{K}$	$Z = T. KEYAKINAN + 1 - T. KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} . S_x$				
$BKB = \bar{X} - Z_{tab} . S_x$				

Hasil Perhitungan LTK

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		13,675	11,3553	13,675	13,4	15,9947
S		2,52564	11,3553	13,675	13,2	15,9947
Sx		1,1295	11,3553	13,675	15,4	15,9947
Z		0,98	11,3553	13,675	14,2	15,9947
Ztab		2,05375	11,3553	13,675	12,4	15,9947
BKA		15,9947	11,3553	13,675	14,2	15,9947
BKB		11,3553	11,3553	13,675	15	15,9947
N'		1,36606	11,3553	13,675	11,6	15,9947
N		40				

Grafik Pola LTK



Perhitungan Data Antropometri LB

KELAS NO	Lebar Bahu					$\sum x_i$	$\bar{x}$	$(x_i - \bar{x})^2$	$\sum x_i^2$
	1	2	3	4	5				
1	48	45	46	46	43	228	45,6	24,45	10410
2	41	42	41	40	49	213	42,6	64,45	9127
3	45	46	44	44	46	225	45	8,05	10129
4	41	40	48	46	40	215	43	62,05	9301
5	48	45	46	41	40	220	44	46,05	9726
6	44	41	43	48	40	216	43,2	42,85	9370
7	48	47	49	44	43	231	46,2	48,85	10699
8	41	44	46	42	43	216	43,2	18,85	9346
$\sum$						1764	352,8	315,6	78108

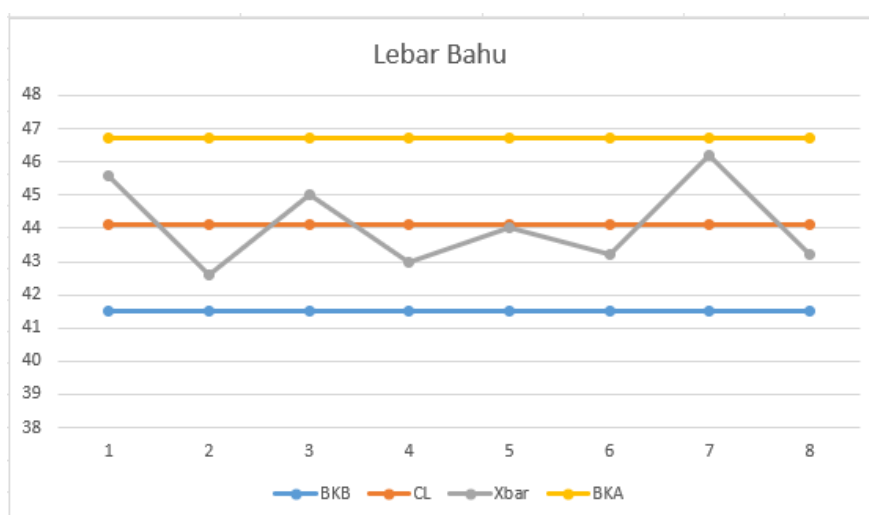
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum x_i^2 - (\sum x_i)^2 / \sum x_i}]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan LB

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		44,1	41,48725	44,1	45,6	46,71275
S		2,844698	41,48725	44,1	42,6	46,71275
Sx		1,272188	41,48725	44,1	45	46,71275
Z		0,98	41,48725	44,1	43	46,71275
Ztab		2,053749	41,48725	44,1	44	46,71275
BKA		46,71275	41,48725	44,1	43,2	46,71275
BKB		41,48725	41,48725	44,1	46,2	46,71275
N'		0,166639	41,48725	44,1	43,2	46,71275
N		40				

Grafik Pola LB



Perhitungan Data Antropometri LP

KELAS NO	Lebar Pinggul					$\sum x_i$	$\bar{x}$	$(x_i - \bar{x})^2$	$\sum x_i^2$
	1	2	3	4	5				
1	89	81	80	87	89	426	85,2	76,9125	36372
2	80	83	86	84	81	414	82,8	55,3125	34302
3	87	88	88	87	88	438	87,6	26,5125	38370
4	89	88	80	84	82	423	84,6	62,0125	35845
5	87	85	83	89	89	433	86,6	35,0125	37525
6	80	85	83	85	88	421	84,2	41,4125	35483
7	83	85	88	89	85	430	86	26,1125	37004
8	88	83	82	89	87	429	85,8	39,8125	36847
$\sum$						3414	682,8	363,1	291748

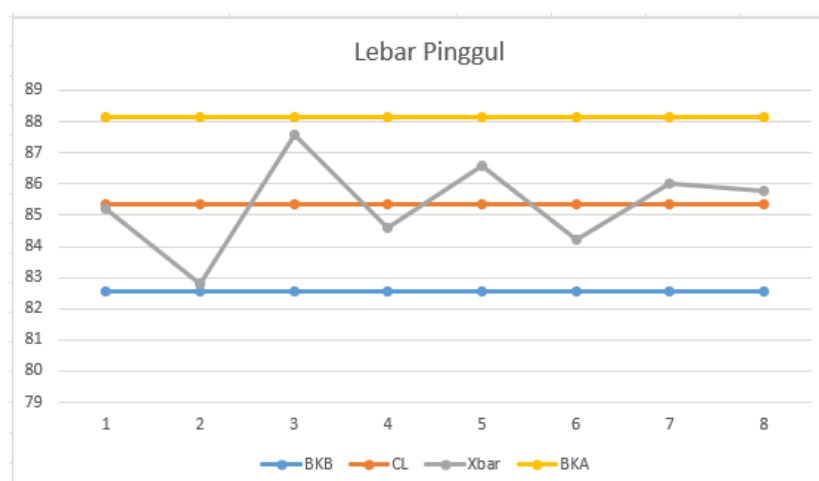
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha [\sqrt{N \sum x_i^2 - (\sum x_i)^2 / \sum x_i}]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot KEYAKINAN + 1 - T \cdot KEYAKINAN / 2$			
$Z_{tab} = NORMSINV (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan LP

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		85,35	82,54752	85,35	85,2	88,15248
S		3,051271	82,54752	85,35	82,8	88,15248
Sx		1,36457	82,54752	85,35	87,6	88,15248
Z		0,98	82,54752	85,35	84,6	88,15248
Ztab		2,053749	82,54752	85,35	86,6	88,15248
BKA		88,15248	82,54752	85,35	84,2	88,15248
BKB		82,54752	82,54752	85,35	86	88,15248
N'		0,051184	82,54752	85,35	85,8	88,15248
N		40				

Grafik Pola LP



Perhitungan Data Antropometri DGT

KELAS	Diameter Genggaman Tangan					Σx_i	$\bar{x}$	$(x_i - \bar{x})^2$	Σx_i^2
NO	1	2	3	4	5				
1	29	22	21	24	21	117	23,4	45,90313	2783
2	23	24	25	22	27	121	24,2	15,70313	2943
3	28	21	22	22	22	115	23	35,00313	2677
4	23	22	24	24	23	116	23,2	4,453125	2694
5	25	27	28	20	21	121	24,2	51,70313	2979
6	25	21	28	21	23	118	23,6	35,35313	2820
7	23	26	28	23	23	123	24,6	24,60313	3047
8	27	25	21	24	23	120	24	20,25313	2900
Σ						951	190,2	232,975	22843

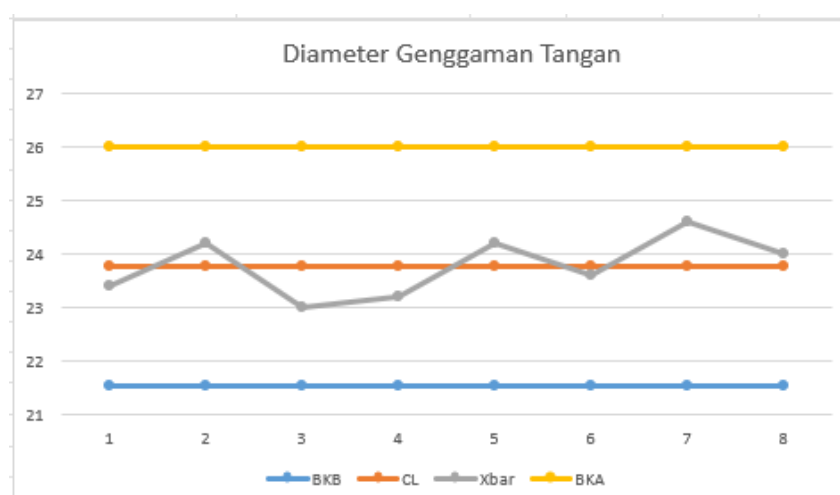
Rumus Perhitungan

RUMUS				
$\bar{x} = \sum \bar{x} / n$	TINGKAT KETELITIAN =	0,05		
	TINGKAT KEYAKINAN =	0,96		
$S = \sqrt{\sum (x_i - \bar{x})^2 / N - 1}$	$N' = Z_{tab} / \alpha \left[\sqrt{N \sum x_i^2 - (\sum x_i)^2 / \sum x_i} \right]^2$			
$S_x = S / \sqrt{K}$	$Z = T \cdot \text{KEYAKINAN} + 1 - T \cdot \text{KEYAKINAN} / 2$			
$Z_{tab} = \text{NORMSINV} (Z)$				
$BKA = \bar{X} + Z_{tab} \cdot S_x$				
$BKB = \bar{X} - Z_{tab} \cdot S_x$				

Hasil Perhitungan DGT

HASIL			BKB	CL	Xbar	BKA
$\bar{x}$		23,775	21,53016	23,775	23,4	26,01984
S		2,444119	21,53016	23,775	24,2	26,01984
Sx		1,093043	21,53016	23,775	23	26,01984
Z		0,98	21,53016	23,775	23,2	26,01984
Ztab		2,053749	21,53016	23,775	24,2	26,01984
BKA		26,01984	21,53016	23,775	23,6	26,01984
BKB		21,53016	21,53016	23,775	24,6	26,01984
N'		0,423239	21,53016	23,775	24	26,01984
N		40				

Grafik Pola DGT



Dokumentasi Pengambilan Data

