

LAMPIRAN-LAMPIRAN



LAMPIRAN 01
DATA NILAI PAS KELAS
VIII SEMESTER GANJIL
TAHUN AJARAN
2022/2023



DATA NILAI PAS KELAS 8

NO	KELAS								
	A	B	C	D	E	F	G	H	I
1	86	86	86	76	83	76	80	76	80
2	90	90	80	80	76	70	90	76	70
3	90	86	90	70	76	75	76	76	73
4	93	76	83	70	76	70	76	76	70
5	90	80	80	76	76	70	96	73	76
6	93	76	80	73	73	76	80	80	76
7	76	76	76	76	80	90	83	83	76
8	90	76	76	76	83	76	76	76	76
9	80	76	76	76	76	76	76	80	76
10	76	76	70	73	80	90	80	76	70
11	90	80	76	76	76	80	76	70	70
12	90	76	70	76	70	83	70	76	73
13	90	76	73	70	76	76	76	76	73
14	93	76	73	70	76	76	76	75	73
15	90	76	80	70	75	80	76	80	76
16	90	80	80	80	80	76	76	76	70
17	90	76	76	76	76	70	73	76	76
18	93	76	70	70	80	76	73	80	70
19	90	76	70	70	76	76	76	76	73
20	93	76	76	70	80	76	70	70	76
21	93	76	76	70	70	76	76	76	76
22	90	76	70	76	70	76	70	76	76
23	93	80	76	90	80	73	76	76	76
24	90	80	76	76	76	80	83	76	73
25	90	80	76	76	70	83	80	76	80
26	93	76	90	96	70	76	90	73	83
27	90	80	70	80	70	80	76	80	76
28	83	76	96	83	73	76	80	83	80
29	93	76	93	76	73	70	76	76	83
30	96	80	70	76	73	76	76	80	80
31	90	90	70	80	76	76	80	83	70
32	90	80	80	76	70	70	85	80	70
33	90	90	73	70	76	80	80	80	70
34	90	80	90	76	70	76	86	76	73
35	93	76	70	80	76	76	80	86	73

36	90	76	70	83	83	70	80	83	73
37	90	80	70	70	80	70	83	83	76
38	93	90	70	70	90	70	80	80	70
39	90	80	70	70	76	73	80	70	76
40	76	86	80	80	86	73	76	73	76
41	93	80	76	76	83	73	86	70	73
42	90	90	76	80	83	76	83	76	73
43	90	80	80	80	80	70	83	76	76
44	96	76	70	76	70	76	80	76	70
45	93	76	96	73	86	70	70	76	76
46	93	76	93	80	86	73	73	76	70
47		90	93		80		70		76



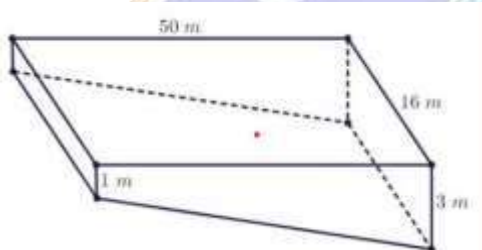
LAMPIRAN 02
INSTRUMEN UJI COBA
TES PRESTASI BELAJAR



A. INSTRUMEN POST TEST PRESTASI BELAJAR

Kerjakan soal berikut dengan cara yang tepat

1. Pak Komang mempunyai 200 liter air... dan kotak air berukuran besar 40 cm x 20 cm x 25 cm sebanyak 8 buah dan kotak berukuran kecil ukuran 20 cm x 10 cm x 15 cm sebanyak 15 buah, berapa kotak besar dan kecil yg efektif dibutuhkan untuk menampung air tersebut !
2. Suatu prisma alas belah ketupat berukuran 30 cm x 40 cm x 50 cm. Akan diubah menjadi empat bangun prisma tegak segitiga. Berapa kira kira luas permukaan prisma tersebut?
3. Suatu limas segiempat yang berukuran 20 cm x 20 cm x 15 cm akan dipotong menjadi 4 bangun limas segitiga yang sama besar. Berapakah volume limas segitiga yg terbentuk?
4. Suatu bak terisi air setara $\frac{3}{4}$ bagian bak. Jika alas bak sepanjang 30 cm x 25 cm x 20 cm, tentukan banyak bak kecil berbentuk kubus dengan rusuk 10 cm yang dibutuhkan untuk menampung air tersebut!
5. Kolam renang berukuran Panjang 50 m dan lebar 16 m. kedalaman air pada ujung yang dangkal 1 m terus melandai hingga pada ujungnya yang dalam 3 m seperti tampak pada gambar di bawah ini. Hitunglah volume air kolam.



6. Pak Anto membuat sebuah kerangka berbentuk balok yang terbuat dari aluminium dengan ukuran 50 cm x 50 cm x 80 . Jika harga 1 m aluminium Rp4.000, berapa biaya yang diperlukan untuk membeli aluminium.
7. Tono mempunyai Sebuah tempat penampungan berbentuk balok mempunyai ukuran panjang 20 dm, lebar 18 dm, dan tinggi 15 dm. Tempat penampungan tersebut akan diisi air $\frac{2}{3}$ dari tingginya. Berapa liter air yang dibutuhkan?
8. Sebuah prisma alasnya berbentuk jajargenjang dengan panjang alas 15 cm dan tinggi 8 cm. Jika tinggi prisma 20 cm, tentukan volume prisma tersebut !
9. Suatu limas segiempat dimasukkan kedalam sebuah balok dengan alas persegi berukuran 40 cm dan tinggi 45 cm, ada beberapa bagian dari puncak limas tampak diluar balok. Jika tinggi limas diluar balok adalah $\frac{1}{3}$ tinggi balok, hitunglah volume bagian limas didalam balok.

10. Suatu kubus dengan rusuk 10 cm akan dibagi menjadi empat bangun yang kongruen (sama besar). Susan ingin membagi kubus menjadi 6 bangun limas, sedangkan Toni akan membagi kubus menjadi 4 bangun prisma. Berapa selisih luas permukaan setiap bangun yang dimiliki Toni dan Susan.



LAMPIRAN 03
HASIL UJI COBA TES
PRESTASI BELAJAR



DATA HASIL PENELITIAN													
KELOMPOK SISWA YANG BELAJAR DENGAN PjBL DENGAN JENIS TES OPEN ENDED													
No	Nama Siswa	Butir Soal										Jumlah Skor	Nilai
		1	2	3	4	5	6	7	8	9	10		
1	Anak Agung Gede Bagus Widyadhana	3	5	4	5	3	4	5	5	4	5	43	86
2	Ayu Tangkas Sirayoni	3	5	4	2	4	5	5	2	5	3	38	76
3	Bangbang Gede Rama Aditya Kusuma	3	5	4	2	5	5	5	5	5	5	44	88
4	Cokorda Istri Purandhi Sahadevi Surya	3	5	4	2	5	5	5	5	3	5	42	84
5	Dewa Ayu Diah Mahajayanti	3	5	4	2	5	5	5	4	2	5	40	80
6	Dewa Ayu Kenanga Dewi	4	5	5	2	5	3	5	5	2	5	41	82
7	Dewa Made Ari Saputra	3	5	3	4	3	3	3	5	4	4	37	74
8	Dewa Made Bintang Nawa Putra	3	5	5	2	4	5	5	4	5	5	43	86
9	Gede Bagus Bayu Saputra	3	4	5	2	5	3	5	3	4	3	37	74
10	Gede Dhairya Aditama	3	4	4	4	2	5	3	2	3	4	34	68
11	Gusti Bagus Santika	2	5	4	2	4	3	5	4	4	3	36	72
12	I Kadek Agus Andika Purnama	3	5	4	3	5	4	5	4	2	5	40	80
13	I Kadek Candrayasa	2	2	5	1	5	5	5	2	2	3	32	64
14	I Kadek Feby Vidita Prana	3	4	4	2	5	5	5	3	2	3	36	72
15	I Kadek Wira Kusuma Dharma	3	5	4	2	5	5	5	4	4	5	42	84
16	I Made Agus Fibra Kusuma	3	4	5	2	4	5	5	2	2	3	35	70
17	I Putu Bagus Sahadewa	3	3	4	4	2	3	5	2	4	5	35	70
18	I Putu Pande Dhika Febriyana	3	5	5	2	4	5	5	1	2	3	35	70
19	Ida Ayu Made Ari Sinta Putri	2	3	4	2	2	5	5	5	3	4	35	70
20	Ida Bagus Made Danendra Adnyana	3	5	3	3	5	4	4	2	5	3	37	74
21	Kadek Ardina Princessa	3	4	5	2	3	3	4	3	3	3	33	66
22	Kadek Nadika Giri Prabawa	3	2	4	2	4	5	4	5	4	3	36	72
23	Kadek Neva Kharisma Dewi	1	4	4	2	5	5	5	4	2	3	35	70
24	Ketut Diah Kusuma Wardani	3	2	5	3	5	3	5	1	2	4	33	66
25	Keyza Febrianda	3	2	4	2	4	5	5	2	2	3	32	64
26	Komang Arya Lawadhuta	3	2	4	2	5	5	5	4	2	5	37	74
27	Komang Candra Kusumajaya	3	3	4	4	3	3	4	2	4	4	34	68
28	Komang Mahagita Jayanti	3	5	5	3	2	5	5	3	2	3	36	72
29	Komang Rama Mahaputera	4	3	4	2	5	4	5	4	2	4	37	74
30	Made Abhyasa Krishna Anantavijaya	3	5	4	3	4	3	5	4	3	4	38	76
31	Ni Kadek Ary Lestari	2	5	5	3	5	3	5	5	3	3	39	78
32	Ni Kadek Dwi Anggita	4	4	3	4	3	3	4	3	3	3	34	68
33	Ni Kadek Yuni Pratiwi	3	5	5	2	4	5	5	4	5	5	43	86
34	Ni Komang Ari Swandewi	3	4	5	2	5	3	5	3	4	3	37	74
35	Ni Luh Arika Putri	3	2	4	2	2	5	3	2	1	4	28	56
36	Ni Luh Putu Jumentari	2	5	4	2	4	3	5	4	4	3	36	72
37	Ni Putu Devi Anggreni	3	5	4	3	5	4	5	4	2	5	40	80
38	Ni Putu Febiana Devayani	2	2	5	1	5	5	5	2	2	3	32	64
39	Ni Putu Gita Utari	3	4	4	2	5	5	5	3	2	3	36	72
40	Ni Putu Kirana Dharma Yanti	3	5	4	2	5	5	5	4	4	5	42	84
41	Ni Putu Lidya Putri Pramesti	3	4	5	2	4	5	5	2	2	3	35	70
42	Ni Putu Selpa Artha Yanti	3	2	4	2	2	3	5	2	1	2	26	52
43	Ni Putu Trisna Wulandari	3	5	5	2	4	5	5	1	2	3	35	70
44	Putu Devi Indra Wastuti	2	3	4	2	2	5	5	5	3	4	35	70
45	Putu Gde Rasmana Putra	3	2	3	2	5	4	4	2	2	3	30	60
46	Putu Tegar Oka Wedhana	3	4	3	2	3	3	4	3	3	2	30	60

DATA HASIL PENELITIAN													
KELOMPOK SISWA YANG BELAJAR DENGAN PjBL DENGAN JENIS TES CLOSED ENDED													
No	Nama Siswa	Butir Soal										Jumlah Skor	Nilai
		1	2	3	4	5	6	7	8	9	10		
1	A.A. I Mas Dewimayuni	3	4	3	4	4	4	4	5	4	5	40	80
2	Cok Istri Diah Ananda Prameswari	3	4	3	4	5	4	4	4	5	4	40	80
3	Dhammaajna Abhinaya	3	4	3	2	4	4	4	5	5	4	38	76
4	Gde Yoga Pratama	3	4	3	2	4	4	4	5	3	4	36	72
5	Gede Ranger Wira Pratama	3	4	4	2	4	4	4	4	2	4	35	70
6	I Dewa Ayu Genetri Setia Dewi	4	4	2	4	4	2	5	5	2	4	36	72
7	I Dewa Gede Adira Wasudewa	2	4	2	2	3	3	3	4	4	5	32	64
8	I Dewa Gede Bimantara Atmaja	3	4	4	2	3	4	4	4	5	4	37	74
9	I Kadek Agus Dwika Candra Kesuma	3	3	4	2	4	2	4	3	4	3	32	64
10	I Kadek Danta Aditiya	3	2	3	2	2	4	3	4	4	5	32	64
11	I Kadek Kesda Widyanata	2	4	3	2	3	3	4	4	4	3	32	64
12	I Kadek Pande Jovanka	3	4	3	3	4	3	4	4	2	4	34	68
13	I Ketut Adi Parisudha Utama	2	2	4	1	4	4	4	2	3	5	31	62
14	I Ketut Gyo Pranayoga	3	3	3	2	4	4	4	3	2	3	31	62
15	I Made Padma Adiaksa Murti	3	4	3	2	4	4	4	4	4	4	36	72
16	I Putu Arya Dennis Budi Widana	3	4	4	2	3	4	4	2	2	3	31	62
17	I Wayan Ambara	3	2	3	2	2	3	4	2	1	2	24	48
18	I Wayan Pasek Agus Dwipayana	3	4	4	2	3	4	4	1	2	3	30	60
19	Kadek Abi Satrya Wiguna	2	3	3	2	2	4	4	5	3	4	32	64
20	Kadek Winda Dwi Maharani	3	2	2	4	4	3	3	2	4	3	30	60
21	Ketut Ari Angga Oktayana	3	3	4	2	3	3	3	3	3	3	30	60
22	Komang Eka Praditya	3	2	3	4	3	4	3	4	3	2	31	62
23	Made Agung Aditya Arya Laksmana	1	4	3	2	4	4	4	4	3	3	32	64
24	Made Sapta Kusuma	3	2	4	3	4	3	3	3	2	4	31	62
25	Ni Kadek Diah Larassati	3	4	3	2	3	4	4	2	4	3	32	64
26	Ni Kadek Dwi Anjani	3	2	3	1	4	4	3	3	4	5	32	64
27	Ni Kadek Puja Respa Swari	3	4	3	3	4	4	3	4	4	4	36	72
28	Ni Kadek Yulistina Melani Putri	3	5	4	3	2	4	4	3	1	3	32	64
29	Ni Ketut Sindi Purnama Dewi	2	4	4	4	4	3	4	3	4	4	36	72
30	Ni Komang Anggita Tri Apsari	3	4	3	3	3	2	4	4	3	4	33	66
31	Ni Komang Dea Tantri	2	4	4	3	4	2	4	5	4	4	36	72
32	Ni Komang Dinda Ari Devi	3	4	4	4	3	4	4	5	3	4	38	76
33	Ni Komang Indah Pratiwi	3	4	4	2	4	4	4	4	2	4	35	70
34	Ni Komang Intan Mahaswari Widia Artha	4	4	2	2	4	2	5	5	2	4	34	68
35	Ni Luh Tarita Pratiwi	2	4	2	2	2	3	3	3	4	5	30	60
36	Ni Made Herin Monika Dwi Anggita	3	4	4	2	3	4	4	4	5	4	37	74
37	Ni Putu Erlina	3	3	4	2	4	2	4	3	4	3	32	64
38	Ni Putu Gita Cahyani	3	2	3	2	3	4	4	4	4	5	34	68
39	Ni Putu Sheila Putri Mahadewi	2	3	3	2	3	2	2	2	2	3	24	48
40	Ni Putu Silva Dyah Maharani	3	4	3	3	4	3	4	4	2	4	34	68
41	Ni Putu Utami Putri Gumajaya	3	4	4	4	4	4	4	5	2	4	38	76
42	Putu Angelina Shinta Dewi	3	3	3	2	4	4	4	3	3	5	34	68
43	Putu Dev Mahatma Suksma	3	4	3	2	4	3	2	2	2	3	28	56
44	Putu Suicahyani	3	4	4	2	3	4	4	2	3	5	34	68
45	Putu Wira Febri Aryawan	3	2	3	3	3	3	4	5	4	4	34	68
46	Reiza Prihana Mega Saputra	3	4	4	2	3	4	4	3	2	5	34	68
47	Yuta Sato	3	2	3	3	2	2	2	4	3	2	26	52

DATA HASIL PENELITIAN													
KELOMPOK SISWA YANG BELAJAR DENGAN MPK DENGAN JENIS TES OPEN ENDED													
No	Nama Siswa	Butir Soal										Jumlah Skor	Nilai
		1	2	3	4	5	6	7	8	9	10		
1	Adinda Putri Dewi	1	3	3	5	3	4	4	3	4	5	35	70
2	Anak Agung Gde Bagus Wahyu Wicaksana	3	3	3	5	2	2	4	4	4	4	34	68
3	Desak Nyoman Dwi Febriari	2	3	3	2	4	2	4	3	3	4	30	60
4	Gusti Ayu Putu Arthalia Maharani	2	3	3	4	2	4	4	2	4	2	30	60
5	I Kadek Adi Mulya Pratama	2	3	3	4	4	4	3	2	3	4	32	64
6	I Kadek Agus Hendrawan	3	2	4	2	4	2	1	4	4	2	28	56
7	I Kadek Alit Widiantara	2	3	4	2	2	4	4	2	3	4	30	60
8	I Kadek Alvian Trisnadinata	3	2	4	2	3	1	2	4	3	3	27	54
9	I Kadek Dava Pranata	3	2	3	5	4	4	2	1	4	2	30	60
10	I Kadek Tio Mahendra Dinata	1	3	3	2	4	1	4	3	4	4	29	58
11	I Komang Adi Putra	1	3	4	2	4	4	4	3	4	4	33	66
12	I Komang Adnyana Putra	2	3	4	3	3	3	3	3	1	4	29	58
13	I Komang Satria Wiguna	1	3	4	3	4	2	4	2	2	3	28	56
14	I Made Dalem Pranawa Taksu	2	3	3	2	3	1	4	2	4	2	26	52
15	I Made Dandy Wedantara	2	3	3	2	2	3	4	3	4	2	28	56
16	I Made Heri Kertana	3	3	3	2	2	4	4	2	1	3	27	54
17	I Made Susastra Ary Mastina	3	3	4	2	4	3	3	2	4	4	32	64
18	I Nyoman Dirilaksana	2	3	3	2	4	4	4	1	1	2	26	52
19	I Putu Adi Pratama Putra	3	2	3	2	1	4	2	3	3	3	26	52
20	I Putu Agus Hendra Suputra	2	3	4	2	4	2	2	2	2	2	25	50
21	I Putu Aristya Sanjaya	2	3	3	3	3	4	3	1	4	2	28	56
22	I Putu Jodi Blantika Putra	2	3	4	3	3	2	4	1	1	3	26	52
23	I Wayan Div Pa Wiguna	1	3	3	2	3	4	3	3	4	3	29	58
24	Kadek Jodie Mahardika	2	3	3	2	1	4	4	3	4	3	29	58
25	Komang Restu Adhi Putra	3	3	3	2	2	4	4	3	3	4	31	62
26	Ni Kadek Ayu Darma Kurniari	3	2	4	5	2	4	4	1	1	2	28	56
27	Ni Kadek Buana Sari	2	3	3	2	3	3	4	3	3	3	29	58
28	Ni Kadek Devi Windasari	2	3	3	2	4	3	3	3	4	4	31	62
29	Ni Kadek Devina Ari Prshanti	2	3	4	4	2	3	4	3	4	3	32	64
30	Ni Kadek Dwi Rahayu Niti	4	3	3	2	2	2	4	5	4	2	31	62
31	Ni Kadek Julita Diantari	2	5	5	2	3	3	3	3	2	3	31	62
32	Ni Kadek Naysswila Afni Riastika	1	5	5	2	5	2	5	3	2	3	33	66
33	Ni Kadek Okta Dwi Satya	2	5	4	2	3	2	5	3	3	3	32	64
34	Ni Ketut Ani Handayani	2	5	4	2	3	2	5	4	2	3	32	64
35	Ni Ketut Any Sunita	1	5	4	2	3	2	5	3	2	2	29	58
36	Ni Ketut Ayu Aprilia Sari	1	5	5	2	5	4	4	3	5	5	39	78
37	Ni Komang Intan Indraswari	2	5	4	2	5	5	5	1	1	3	33	66
38	Ni Komang Novi Krismayuni	3	4	4	2	2	3	3	4	4	3	32	64
39	Ni Komang Ratna Puspa Sari	2	5	5	2	5	3	3	3	3	3	34	68
40	Ni Luh Putu Dini Antikawati	1	2	4	3	2	5	3	4	2	5	31	62
41	Ni Putu Linda Jenevayanti	2	5	5	3	4	3	5	1	2	4	34	68
42	Ni Putu Mirah Utami Mahasari	1	5	4	2	4	5	4	4	5	4	38	76
43	Ni Wayan Ayu Candra Dewi	2	5	4	2	1	5	5	4	2	4	34	68
44	Ni Wayan Tirawati	1	5	4	2	3	1	3	4	2	3	28	56
45	Pintaui Malau	1	4	5	5	3	5	5	1	2	3	34	68
46	Putu Adelyna Prabandari	1	5	4	2	4	2	5	4	4	3	34	68
47	Putu Ayu Widiari	2	5	5	3	4	3	5	1	2	4	34	68

DATA HASIL PENELITIAN													
KELOMPOK SISWA YANG BELAJAR DENGAN MPK DENGAN JENIS TES CLOSED ENDED													
No	Nama Siswa	Butir Soal										Jumlah Skor	Nilai
		1	2	3	4	5	6	7	8	9	10		
1	Anak Agung Ayu Intan Pradnyadewi	2	3	4	5	4	5	4	5	5	5	42	84
2	Ayu Made Prabhawati	3	5	4	5	5	3	3	4	4	4	40	80
3	I Gde Pahla Satyayudha	2	5	4	2	5	4	4	4	3	4	37	74
4	I Gede Puspa Yoga Kumara	2	5	4	4	3	3	5	3	3	3	35	70
5	I Gede Taro Pramana	1	5	4	2	3	5	4	3	4	5	36	72
6	I Kadek Adi Prima Gantara	3	2	5	2	3	3	2	3	4	5	32	64
7	I Kadek Adi Widiadnyana	2	5	2	4	3	5	5	3	4	5	38	76
8	I Kadek Dio Esa	3	4	5	4	4	2	3	5	4	4	38	76
9	I Kadek Dwima Septyawandi	3	4	4	4	1	3	3	3	3	3	31	62
10	I Komang Adi Pramana	4	5	4	2	5	2	4	4	3	3	36	72
11	I Komang Edi Juana Putra	1	5	4	2	4	4	4	3	2	3	32	64
12	I Komang Miasa Adi Saputra	2	5	5	2	3	3	3	3	3	3	32	64
13	I Made Arca Juli Ariawan	4	5	4	2	4	2	3	3	2	3	32	64
14	I Made Galang Suputra	4	4	4	5	4	4	5	4	3	5	42	84
15	I Pande Made Yuma Adi Putra	2	5	4	4	3	4	5	4	4	3	38	76
16	I Putu Cahya Hega Ilyana	4	5	4	2	3	2	5	3	2	2	32	64
17	I Putu Saskara Budi Wiguna	4	4	4	2	3	3	3	3	4	4	34	68
18	I Wayan Aditya Pratama	2	5	4	2	4	4	4	4	3	3	35	70
19	I Wayan Bagus Ari Sadhana Sukawati	3	4	4	2	3	3	4	4	4	3	34	68
20	I Wayan Sumerta Yasa	2	5	5	3	5	3	4	3	4	4	38	76
21	Ida Ayu Putu Ariska Julia Apsari	4	4	4	3	2	5	5	3	2	3	35	70
22	Kadek Aldy Yinatha Sanjaya Putra	2	5	5	3	4	3	5	3	4	4	38	76
23	Kadek Cintya Pratiwi Maharani	1	5	4	2	4	3	4	4	4	4	35	70
24	Kadek Davina Partiana Putri	2	5	4	2	3	5	5	4	4	4	38	76
25	Kadek Dwi Melani	3	5	4	3	3	4	3	4	3	3	35	70
26	Kadek Gia Tresna Suputra	2	4	5	5	3	5	4	1	2	3	34	68
27	Kadek Setia Dewi	2	5	4	3	4	3	5	4	4	4	38	76
28	Komang Darma Vedanta	4	4	4	5	4	5	4	4	3	5	42	84
29	Made Prilian Cahya Putri	4	5	4	4	3	4	3	4	3	4	38	76
30	Ni Kadek Dwi Saputri	3	5	4	4	3	5	5	4	5	4	42	84
31	Ni Kadek Era Pradnya Dewi	3	3	4	3	3	5	4	5	5	4	39	78
32	Ni Kadek Istri Jahnawi	3	4	4	4	4	5	4	4	5	4	41	82
33	Ni Kadek Revi Meilani	3	5	4	3	3	4	3	4	3	4	36	72
34	Ni Komang Deanita	3	3	3	5	4	5	4	4	4	4	39	78
35	Ni Luh Putu Listiani Putri	2	4	3	5	4	5	4	3	4	5	39	78
36	Ni Nyoman Leoni Sugi Pramita	1	3	3	2	4	4	4	5	3	5	34	68
37	Ni Putu Eta Canisayu	3	3	5	5	4	4	5	5	4	5	43	86
38	Ni Putu Keisya	3	1	4	3	4	4	5	4	4	5	37	74
39	Ni Putu Listyana Dewi	2	3	1	2	2	4	4	2	4	4	28	56
40	Ni Putu Pande Armiati Dewi	3	2	4	3	4	3	4	4	4	5	36	72
41	Ni Wayan Separtini	2	4	3	5	4	5	4	4	4	5	40	80
42	Pande Ni Made Puspita Rahayu	1	3	3	2	4	4	4	3	4	4	32	64
43	Pande Putu Candra Marcia Dewi	1	3	4	2	4	4	4	5	5	4	36	72
44	Pande Putu Reihan Nanda	5	4	4	3	4	4	4	4	5	5	42	84
45	Putu Gede Sedana Alit Putra	5	3	4	2	3	3	4	3	4	4	35	70
46	Putu Serina Januantari	4	4	3	2	2	3	2	2	2	3	27	54
47	I Kadek Satya Nandika Narayana	2	2	3	2	2	3	2	3	2	4	25	50

LAMPIRAN 04 HASIL UJI JUDGES



RATER II	RATER I		
		TR	R
	TR	A	B
	R	C	D

Keterangan

A : Jumlah butir yang tidak relevan menurut kedua rater

B : Jumlah butir relevan rater I, tidak relevan rater II

C : Jumlah butir tidak relevan rater I, relevan rater II

D : Jumlah butir relevan rater I, relevan rater II

Rekapitan hasil penilaian kedua rater

No	RATER I		RATER II	
	TR	R	TR	R
1		V		V
2		V		V
3		V		V
4		V		V
5		V		V
6		V		V
7		V		V
8		V		V
9		V		V
10		V		V
JUMLAH	0	10	0	10

$$VI = A+B+C+D$$

$$= \frac{10}{0+0+0+10} = 1$$

Lampiran 05 hasil analisis anava 2 jalur

```

UNIANOVA PB BY MP JENISTES
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /PLOT=PROFILE(MP*JENISTES)
  /EMMEANS=TABLES(MP) COMPARE ADJ(LSD)
  /EMMEANS=TABLES(JENISTES) COMPARE ADJ(LSD)
  /EMMEANS=TABLES(JENISTES*MP)
  /PRINT=HOMOGENEITY DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN=MP JENISTES JENISTES*MP.

```

Univariate Analysis of Variance

Between-Subjects Factors

		Value Label	N
MP	1	MPBP	93
	2	MPK	94
JENISTES	1	OPEN ENDED	93
		CLOSE ENDED	94
	2	OPEN ENDED	93
		CLOSE ENDED	94

Descriptive Statistics

Dependent Variable: PB

MP	JENISTES	Mean	Std. Deviation	N
MPBP	OPEN ENDED	72.65	8.067	46
	CLOSE ENDED	66.21	7.080	47
	Total	69.40	8.208	93
MPK	OPEN ENDED	61.32	6.287	47
	CLOSE ENDED	72.26	8.104	47
	Total	66.79	9.069	94
Total	OPEN ENDED	66.92	9.168	93
	CLOSE ENDED	69.23	8.155	94
	Total	68.09	8.727	187

Tests of Between-Subjects Effects

Dependent Variable: PB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4093.175 ^a	3	1364.392	24.786	.000
Intercept	867408.786	1	867408.786	15757.830	.000
MP	327.094	1	327.094	5.942	.016
JENISTES	236.311	1	236.311	4.293	.040
MP * JENISTES	3528.276	1	3528.276	64.097	.000
Error	10073.456	183	55.046		
Total	881032.000	187			
Corrected Total	14166.631	186			

a. R Squared = ,289 (Adjusted R Squared = ,277)

Estimated Marginal Means

1. MP

Estimates

Dependent Variable: PB

MP	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
MPBP	69.432	.769	67.914	70.950
MPK	66.787	.765	65.277	68.297

Pairwise Comparisons

Dependent Variable: PB

(I) MP	(J) MP	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
MPBP	MPK	2.645 [*]	1.085	.016	.504	4.786
MPK	MPBP	-2.645 [*]	1.085	.016	-4.786	-.504

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

2. JENISTES

Estimates

Dependent Variable: PB

JENISTES	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
OPEN ENDED	66.986	.769	65.468	68.504
CLOSE ENDED	69.234	.765	67.724	70.744

Pairwise Comparisons

Dependent Variable: PB

(I) JENISTES	(J) JENISTES	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
OPEN ENDED	CLOSE ENDED	-2.248*	1.085	.040	-4.389	-.107
CLOSE ENDED	OPEN ENDED	2.248*	1.085	.040	.107	4.389

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

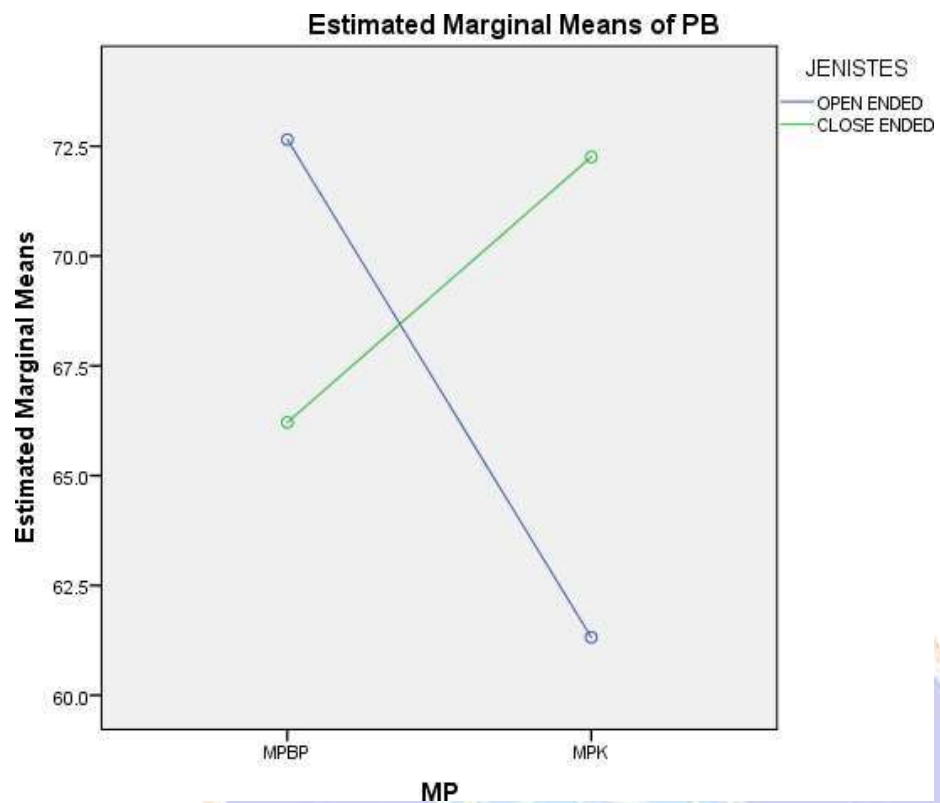
3.

JENISTES * MP

Dependent Variable: PB

JENISTES	MP	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
OPEN ENDED	MPBP	72.652	1.094	70.494	74.810
	MPK	61.319	1.082	59.184	63.454
CLOSE ENDED	MPBP	66.213	1.082	64.078	68.348
	MPK	72.255	1.082	70.120	74.391

Profile Plots



Hasil Analisis ANAVA RM4

```
UNIANOVA PB BY MP
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /EMMEANS=TABLES(MP) COMPARE ADJ(LSD)
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN=MP.
```

Univariate Analysis of Variance

[DataSet0]

Between-Subjects Factors

		Value Label	N
MP	1	MPBP	46
	2	MPK	46

Descriptive Statistics

Dependent Variable: PB

MP	Mean	Std. Deviation	N
MPBP	72.65	8.067	46
MPK	61.17	6.276	46
Total	66.91	9.217	92

Tests of Between-Subjects Effects

Dependent Variable: PB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3030.261 ^a	1	3030.261	58.013	.000
Intercept	411916.696	1	411916.696	7886.016	.000
MP	3030.261	1	3030.261	58.013	.000
Error	4701.043	90	52.234		
Total	419648.000	92			

Corrected Total	7731.304	91			
-----------------	----------	----	--	--	--

a. R Squared = ,392 (Adjusted R Squared = ,385)

Estimated Marginal Means

MP

Estimates

Dependent Variable: PB

MP	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
MPBP	72.652	1.066	70.535	74.769
MPK	61.174	1.066	59.057	63.291

Pairwise Comparisons

Dependent Variable: PB

(I) MP	(J) MP	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
MPBP	MPK	11.478 [*]	1.507	.000	8.484	14.472
MPK	MPBP	-11.478 [*]	1.507	.000	-14.472	-8.484

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Univariate Tests

Dependent Variable: PB

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	3030.261	1	3030.261	58.013	.000
Error	4701.043	90	52.234		

The F tests the effect of MP. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

Hasil analisis anava RM 5

```

UNIANOVA PB BY MP
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /EMMEANS=TABLES(MP) COMPARE ADJ(LSD)
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN=MP.
    
```

Univariate Analysis of Variance

Notes		
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Comments		
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	Split File	<none>
	N of Rows in Working Data File	94
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		UNIANOVA PB BY MP /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /EMMEANS=TABLES(MP) COMPARE ADJ(LSD) /PRINT=DESCRIPTIVE /CRITERIA=ALPHA(.05) /DESIGN=MP.
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,02

Between-Subjects Factors

		Value Label	N
MP	1	MPBP	47
	2	MPK	47

Descriptive Statistics

Dependent Variable: PB

MP	Mean	Std. Deviation	N
MPBP	66.21	7.080	47
MPK	72.26	8.104	47
Total	69.23	8.155	94

Tests of Between-Subjects Effects

Dependent Variable: PB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	858.043 ^a	1	858.043	14.819	.000
Intercept	450575.149	1	450575.149	7781.942	.000
MP	858.043	1	858.043	14.819	.000
Error	5326.809	92	57.900		
Total	456760.000	94			
Corrected Total	6184.851	93			

a. R Squared = ,139 (Adjusted R Squared = ,129)

Estimated Marginal Means**MP**

Estimates

Dependent Variable: PB

MP	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
MPBP	66.213	1.110	64.008	68.417
MPK	72.255	1.110	70.051	74.460

Pairwise Comparisons

Dependent Variable: PB

(I) MP	(J) MP	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound
MPBP	MPK	-6.043 [*]	1.570	.000	-9.160	-2.925
MPK	MPBP	6.043 [*]	1.570	.000	2.925	9.160

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Univariate Tests

Dependent Variable: PB

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	858.043	1	858.043	14.819	.000
Error	5326.809	92	57.900		

The F tests the effect of MP. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

Hasil Analisis ANAVA RM 6

```
UNIANOVA PB BY JENISTES
  /METHOD=SSTYPE(3)
  /INTERCEPT=INCLUDE
  /EMMEANS=TABLES(JENISTES) COMPARE ADJ(LSD)
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA(.05)
  /DESIGN=JENISTES.
```

Univariate Analysis of Variance

Notes

Output Created	30-APR-2023 11:22:50	
Comments		
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	N of Rows in Working Data File	93
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax	<pre> UNIANOVA PB BY JENISTES /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /EMMEANS=TABLES(JENISTES) COMPARE ADJ(LSD) /PRINT=DESCRIPTIVE /CRITERIA=ALPHA(.05) /DESIGN=JENISTES. </pre>	
Resources	Processor Time	00:00:00,02
	Elapsed Time	00:00:00,02

Between-Subjects Factors

		Value Label	N
JENISTES	1	OPEN ENDED	46
	2	CLOSED ENDED	47

Descriptive Statistics

Dependent Variable: PB

JENISTES	Mean	Std. Deviation	N
OPEN ENDED	72.65	8.067	46
CLOSED ENDED	66.21	7.080	47
Total	69.40	8.208	93

Tests of Between-Subjects Effects

Dependent Variable: PB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	963.972 ^a	1	963.972	16.759	.000
Intercept	448288.876	1	448288.876	7793.637	.000
JENISTES	963.972	1	963.972	16.759	.000
Error	5234.307	91	57.520		
Total	454092.000	93			
Corrected Total	6198.280	92			

a. R Squared = ,156 (Adjusted R Squared = ,146)

Estimated Marginal Means

JENISTES

Estimates

Dependent Variable: PB

JENISTES	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
OPEN ENDED	72.652	1.118	70.431	74.873
CLOSED ENDED	66.213	1.106	64.015	68.410

Pairwise Comparisons

Dependent Variable: PB

(I) JENISTES	(J) JENISTES	Mean Difference (I-J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b	
					Lower Bound	Upper Bound

OPEN ENDED	CLOSED ENDED	6.439*	1.573	.000	3.315	9.564
CLOSED ENDED	OPEN ENDED	-6.439*	1.573	.000	-9.564	-3.315

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Univariate Tests

Dependent Variable: PB

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	963.972	1	963.972	16.759	.000
Error	5234.307	91	57.520		

The F tests the effect of JENISTES. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

Lampiran Analisis ANAVA RM 7

```

UNIANOVA PB BY JENISTES
  /METHOD=SSTYPE (3)
  /INTERCEPT=INCLUDE
  /EMMEANS=TABLES (JENISTES) COMPARE ADJ (LSD)
  /PRINT=DESCRIPTIVE
  /CRITERIA=ALPHA (.05)
  /DESIGN=JENISTES.

```

Univariate Analysis of Variance

Notes

Output Created	30-APR-2023 11:23:59	
Comments		
Input	Active Dataset	DataSet0
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	N of Rows in Working Data File	94
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data for all variables in the model.
Syntax		<pre> UNIANOVA PB BY JENISTES /METHOD=SSTYPE(3) /INTERCEPT=INCLUDE /EMMEANS=TABLES(JENISTES) COMPARE ADJ(LSD) /PRINT=DESCRIPTIVE /CRITERIA=ALPHA(.05) /DESIGN=JENISTES. </pre>
Resources	Processor Time	00:00:00,00
	Elapsed Time	00:00:00,02

Between-Subjects Factors

		Value Label	N
JENISTES	1	OPEN ENDED	47
	2	CLOSED ENDED	47

Descriptive Statistics

Dependent Variable: PB

JENISTES	Mean	Std. Deviation	N
OPEN ENDED	61.32	6.287	47
CLOSED ENDED	72.26	8.104	47
Total	66.79	9.069	94

Tests of Between-Subjects Effects

Dependent Variable: PB

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2810.596 ^a	1	2810.596	53.434	.000
Intercept	419290.255	1	419290.255	7971.382	.000
JENISTES	2810.596	1	2810.596	53.434	.000
Error	4839.149	92	52.599		
Total	426940.000	94			
Corrected Total	7649.745	93			

a. R Squared = ,367 (Adjusted R Squared = ,361)

Estimated Marginal Means

JENISTES



Estimates

Dependent Variable: PB

JENISTES	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
OPEN ENDED	61.319	1.058	59.218	63.420
CLOSED ENDED	72.255	1.058	70.154	74.356

Pairwise Comparisons

Dependent Variable: PB

(I) JENISTES	(J) JENISTES	Mean Difference (I- J)	Std. Error	Sig. ^b	95% Confidence Interval for Difference ^b
--------------	--------------	------------------------	------------	-------------------	---

		J)			Lower Bound	Upper Bound
OPEN ENDED	CLOSED ENDED	-10.936*	1.496	.000	-13.908	-7.965
CLOSED ENDED	OPEN ENDED	10.936*	1.496	.000	7.965	13.908

Based on estimated marginal means

*. The mean difference is significant at the .05 level.

b. Adjustment for multiple comparisons: Least Significant Difference (equivalent to no adjustments).

Univariate Tests

Dependent Variable: PB

	Sum of Squares	df	Mean Square	F	Sig.
Contrast	2810.596	1	2810.596	53.434	.000
Error	4839.149	92	52.599		

The F tests the effect of JENISTES. This test is based on the linearly independent pairwise comparisons among the estimated marginal means.

Hasil Analisis Normalitas dan Homogenitas MP tiap sel

```
EXAMINE VARIABLES=PB BY MP JENISTES
/PLOT NPLOT SPREADLEVEL
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
```

Explore

Notes

Output Created		30-APR-2023 11:04:11
Comments		
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	N of Rows in Working Data File	187
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=PB BY MP JENISTES /PLOT NPLOT SPREADLEVEL /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:03,10
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MP

Case Processing Summary

		Cases					
		Valid		Missing		Total	
	MP	N	Percent	N	Percent	N	Percent
PB	MPBP	93	100.0%	0	0.0%	93	100.0%
	MPK	94	100.0%	0	0.0%	94	100.0%

Descriptives

		MP		Statistic	Std. Error
PB	MPBP	Mean		69.40	.851
		95% Confidence Interval for Mean	Lower Bound	67.71	
			Upper Bound	71.09	
		5% Trimmed Mean		69.50	
		Median		70.00	
		Variance		67.373	
		Std. Deviation		8.208	
		Minimum		48	
		Maximum		88	

	Range		40	
	Interquartile Range		10	
	Skewness		-.072	.250
	Kurtosis		.304	.495
MPK	Mean		66.79	.935
	95% Confidence Interval for Mean	Lower Bound	64.93	
		Upper Bound	68.64	
	5% Trimmed Mean		66.68	
	Median		67.00	
	Variance		82.255	
	Std. Deviation		9.069	
	Minimum		50	
	Maximum		86	
	Range		36	
	Interquartile Range		14	
	Skewness		.168	.249
	Kurtosis		-.725	.493

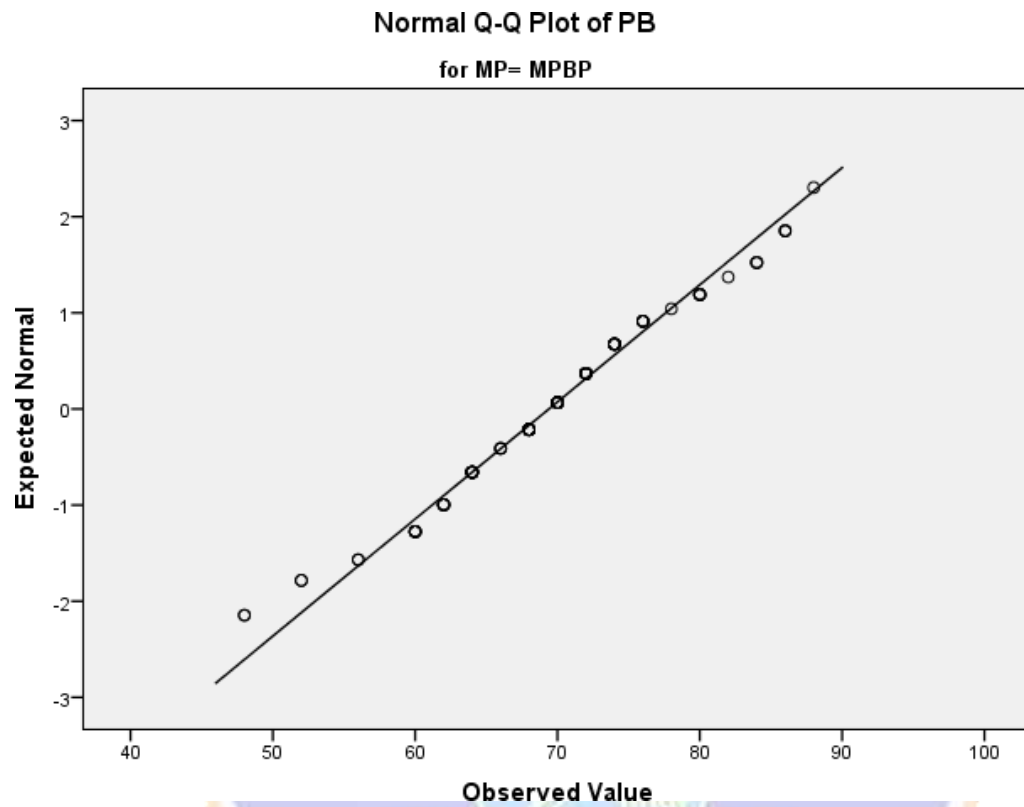
Tests of Normality

	MP	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PB	MPBP	.085	93	.092	.978	93	.122
	MPK	.089	94	.065	.974	94	.057

a. Lilliefors Significance Correction

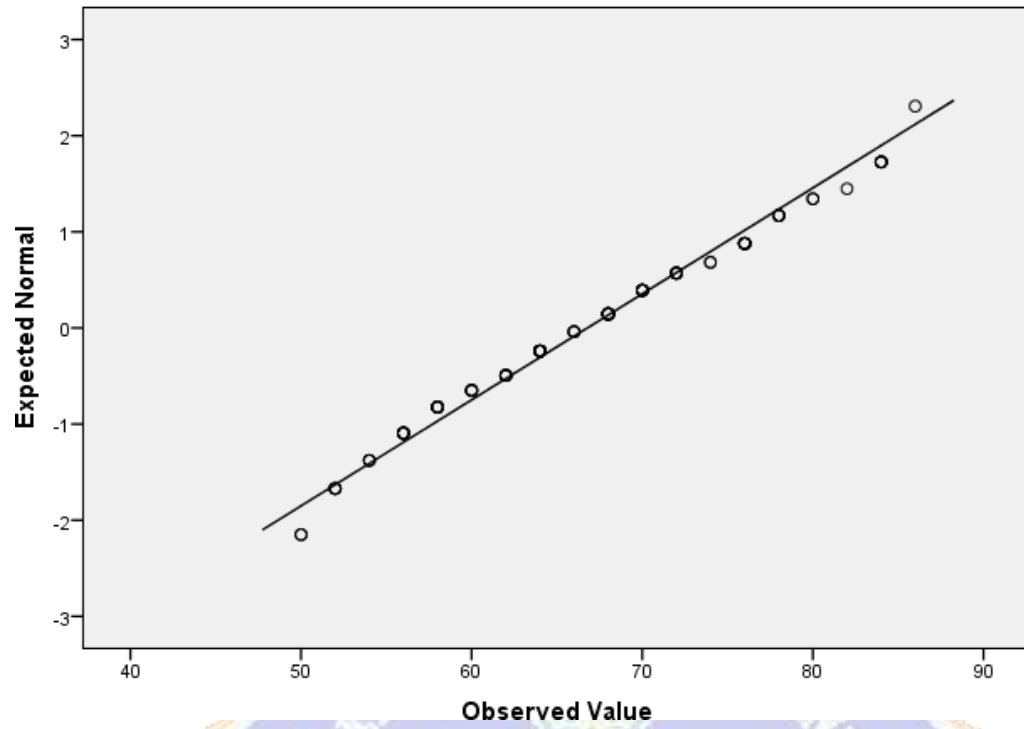
Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
PB	Based on Mean	2.359	1	185	.126
	Based on Median	2.455	1	185	.119
	Based on Median and with adjusted df	2.455	1	184.758	.119
	Based on trimmed mean	2.377	1	185	.125

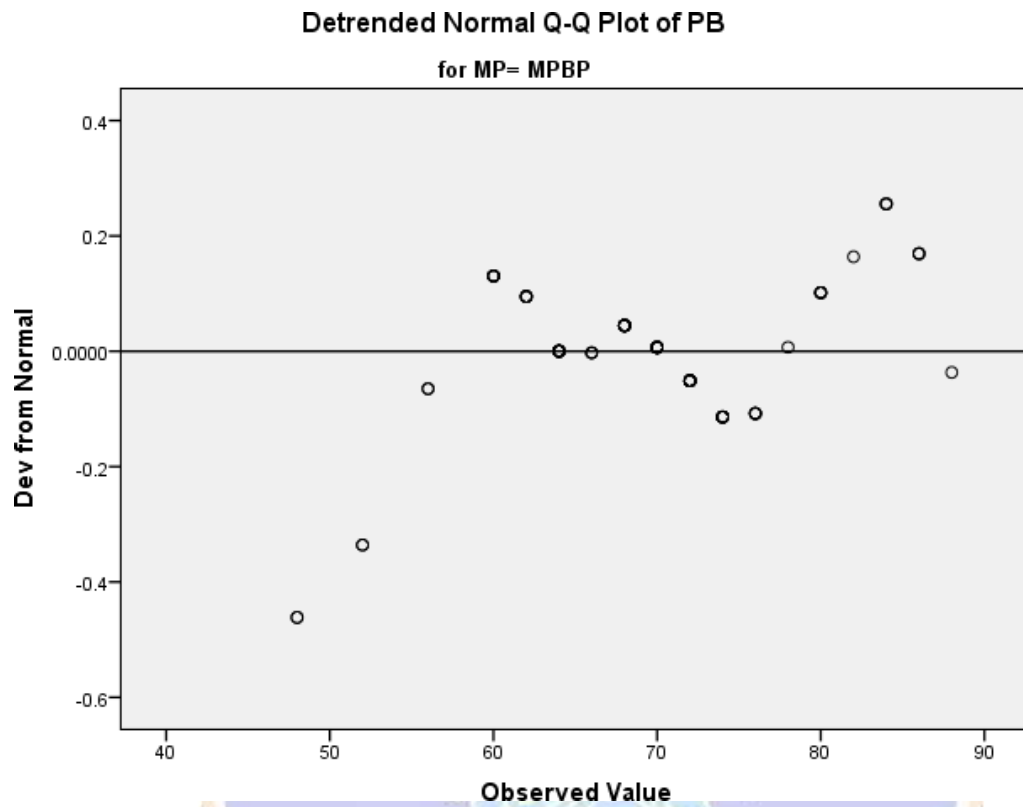
PB**Normal Q-Q Plots**

Normal Q-Q Plot of PB

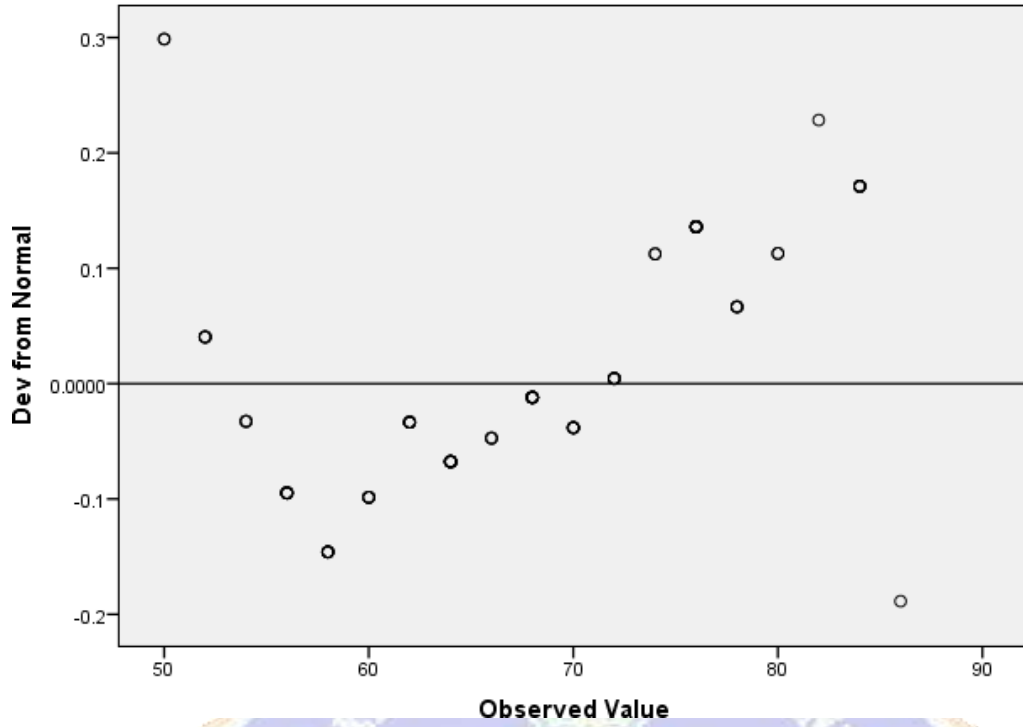
for MP= MPK



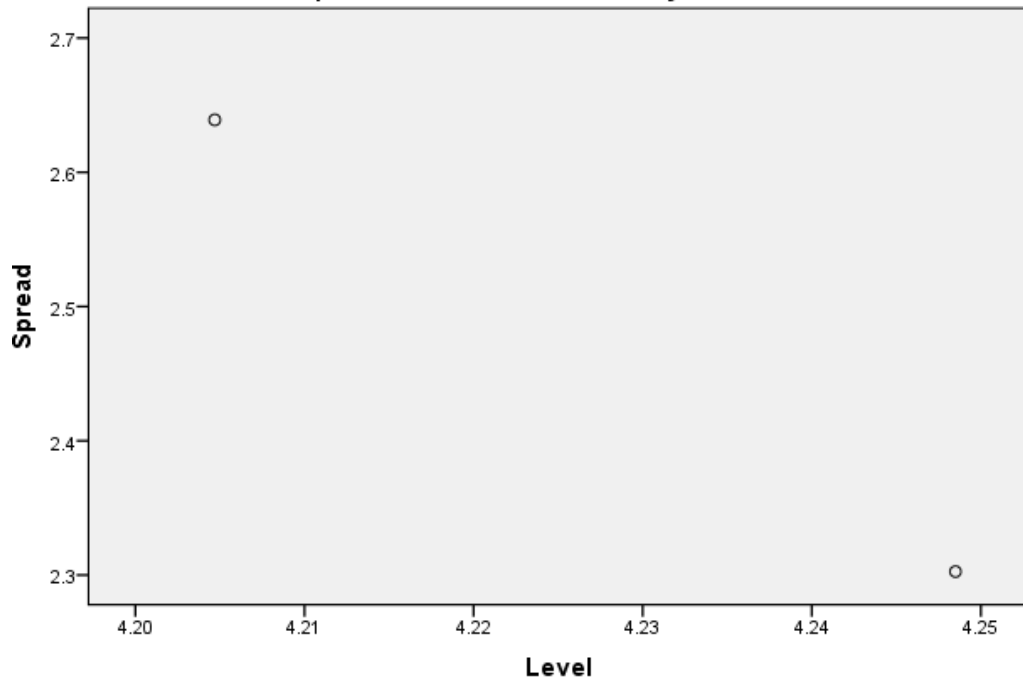
Detrended Normal Q-Q Plots



Detrended Normal Q-Q Plot of PB
for MP= MPK



Spread vs. Level Plot of PB by MP



* Plot of LN of Spread vs LN of Level
Slope = -7.682 Power for transformation = 8.682

JENISTES

Case Processing Summary

		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
	JENISTES						
PB	MPBP OPEN ENDED	46	100.0%	0	0.0%	46	100.0%
	MPBP CLOSED ENDED	47	100.0%	0	0.0%	47	100.0%
	MPK OPEN ENDED	47	100.0%	0	0.0%	47	100.0%
	MPK CLOSED ENDED	47	100.0%	0	0.0%	47	100.0%

Descriptives

JENISTES		Statistic	Std. Error		
PB	MPBP OPEN ENDED	Mean	72.65	1.189	
		95% Confidence Interval for Mean	Lower Bound	70.26	
			Upper Bound	75.05	
		5% Trimmed Mean		72.86	
		Median		72.00	
		Variance		65.076	
		Std. Deviation		8.067	
		Minimum		52	
		Maximum		88	
		Range		36	
		Interquartile Range		11	
		Skewness		-.136	.350
		Kurtosis		.090	.688
		MPBP CLOSED ENDED		Mean	66.21
95% Confidence Interval for Mean	Lower Bound			64.13	
	Upper Bound			68.29	
5% Trimmed Mean				66.46	
Median				66.00	
Variance				50.128	
Std. Deviation				7.080	

	Minimum		48	
	Maximum		80	
	Range		32	
	Interquartile Range		10	
	Skewness		-.457	.347
	Kurtosis		.677	.681
MPK OPEN ENDED	Mean		61.32	.917
	95% Confidence Interval for Mean	Lower Bound	59.47	
		Upper Bound	63.17	
	5% Trimmed Mean		61.07	
	Median		62.00	
	Variance		39.526	
	Std. Deviation		6.287	
	Minimum		50	
	Maximum		78	
	Range		28	
	Interquartile Range		10	
	Skewness		.399	.347
	Kurtosis		.014	.681
MPK CLOSED ENDED	Mean		72.26	1.182
	95% Confidence Interval for Mean	Lower Bound	69.88	
		Upper Bound	74.63	
	5% Trimmed Mean		72.65	
	Median		72.00	
	Variance		65.673	
	Std. Deviation		8.104	
	Minimum		50	
	Maximum		86	
	Range		36	
	Interquartile Range		10	
	Skewness		-.541	.347
	Kurtosis		.346	.681

Tests of Normality

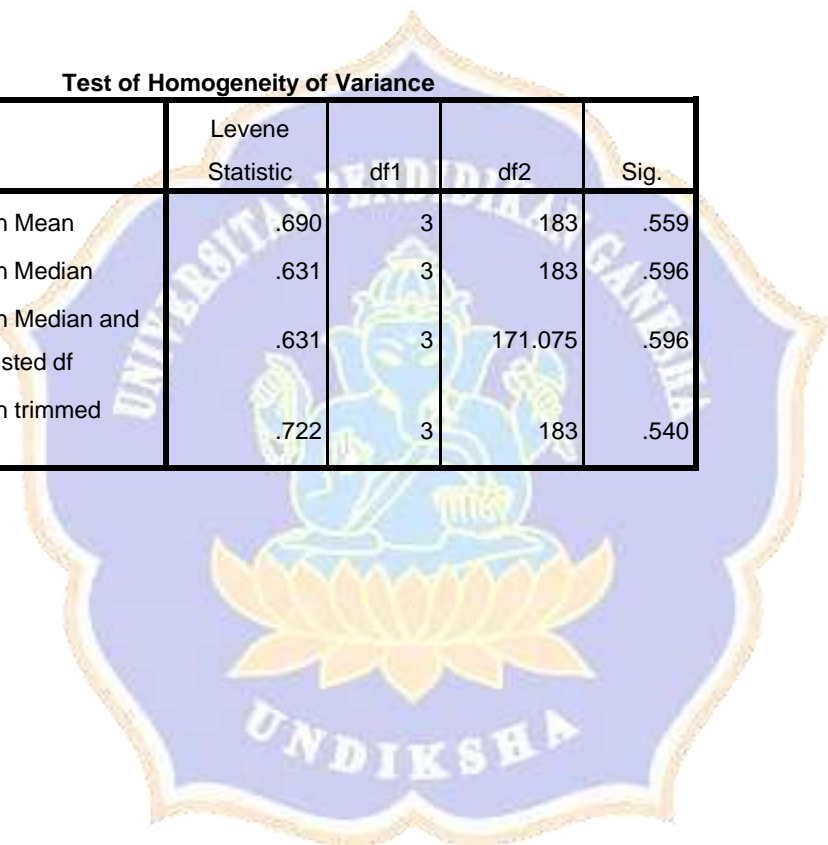
	JENISTES	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PB	MPBP OPEN ENDED	.129	46	.052	.968	46	.240
	MPBP CLOSED ENDED	.112	47	.181	.957	47	.080
	MPK OPEN ENDED	.105	47	.200*	.965	47	.177
	MPK CLOSED ENDED	.104	47	.200*	.960	47	.109

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

a. Lilliefors Significance Correction

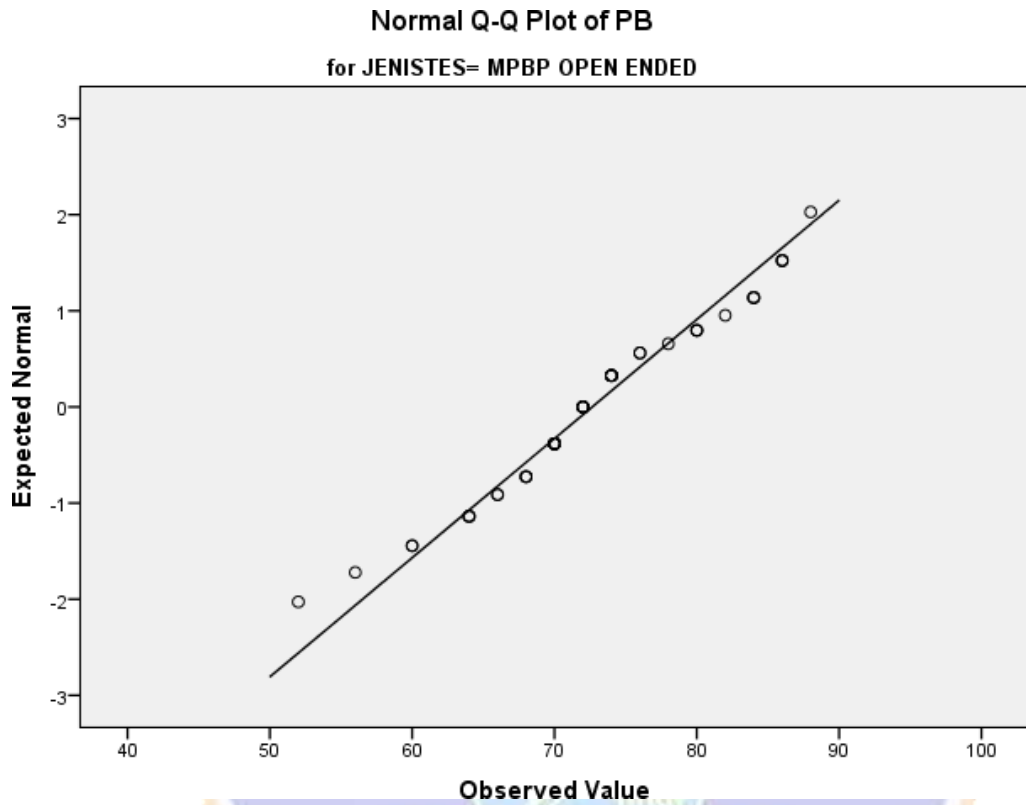
Test of Homogeneity of Variance

		Levene	df1	df2	Sig.
		Statistic			
PB	Based on Mean	.690	3	183	.559
	Based on Median	.631	3	183	.596
	Based on Median and with adjusted df	.631	3	171.075	.596
	Based on trimmed mean	.722	3	183	.540

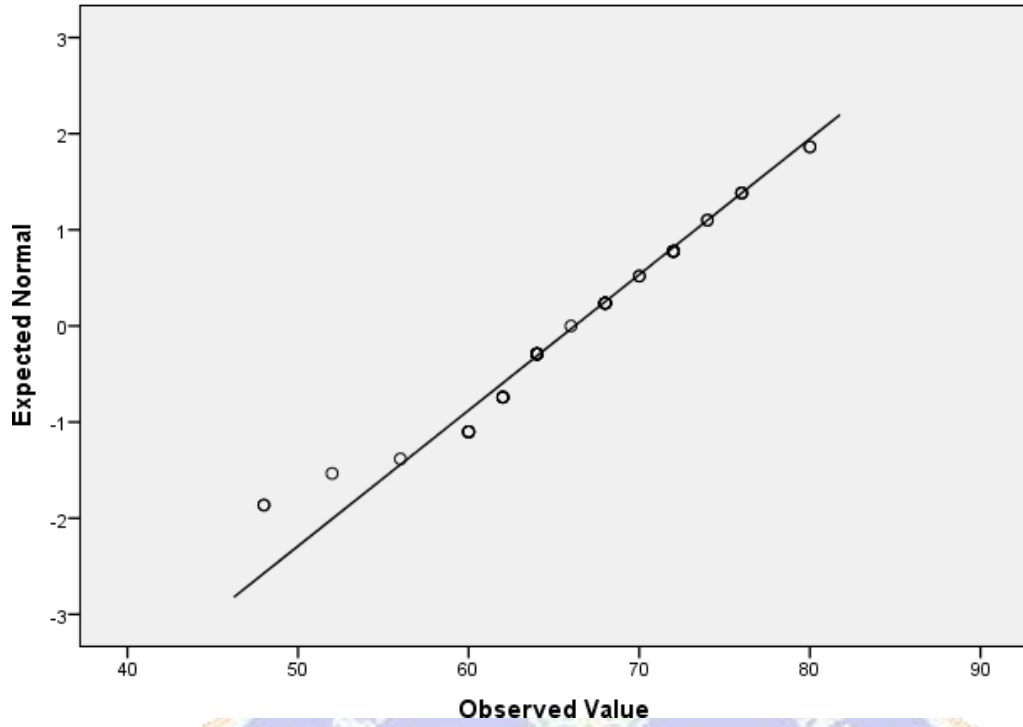


PB

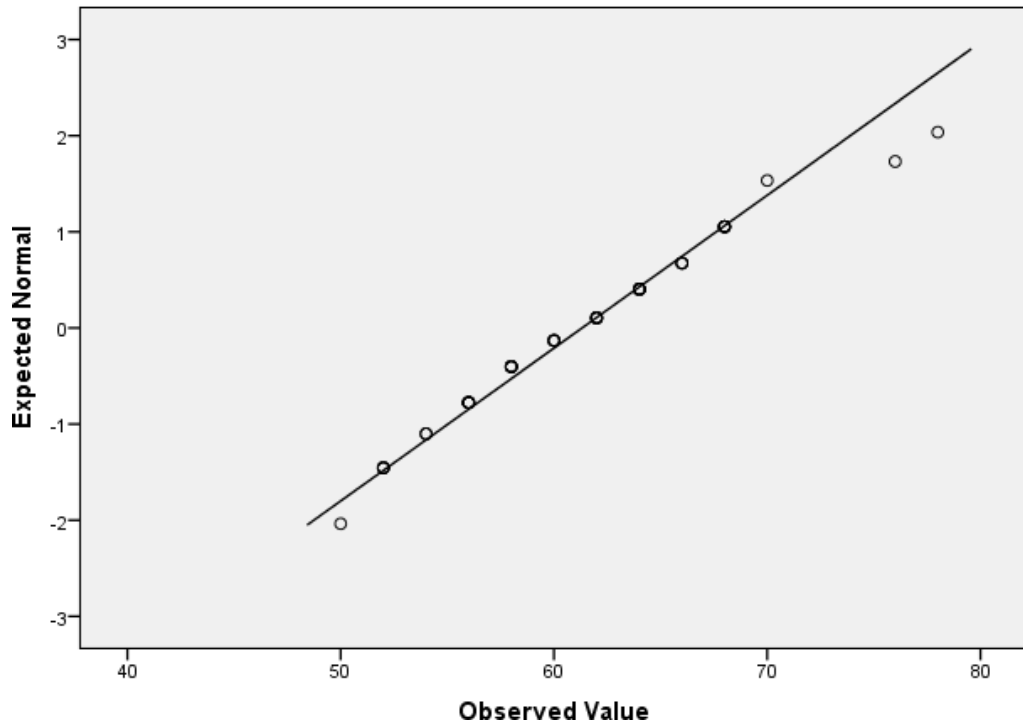
Normal Q-Q Plots



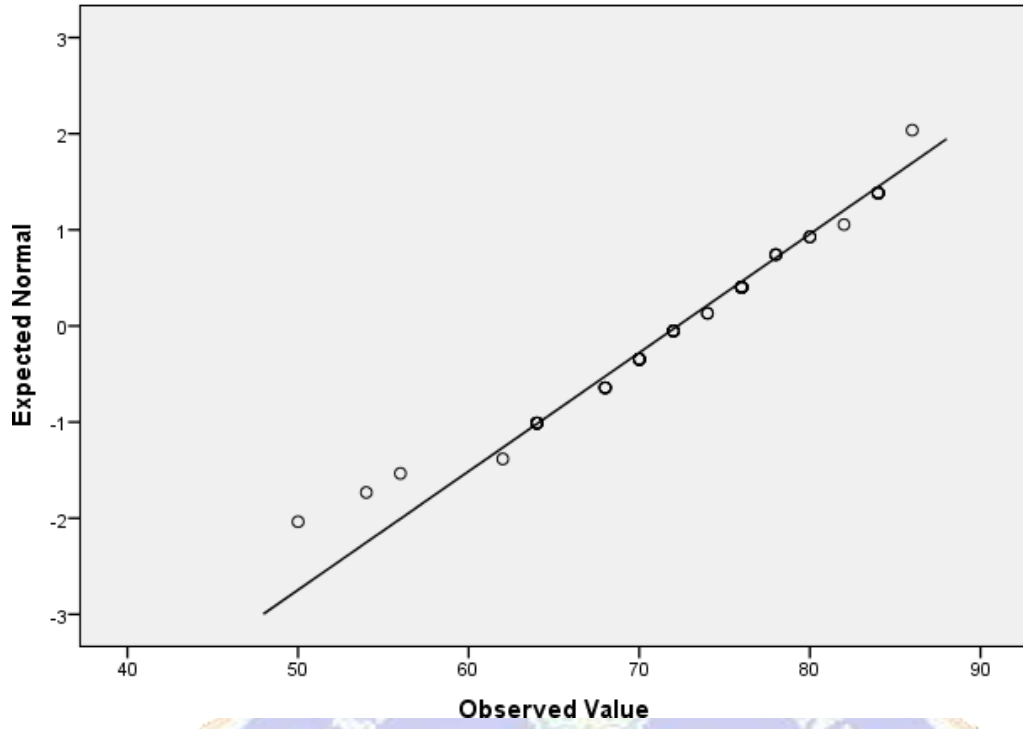
Normal Q-Q Plot of PB
for JENISTES= MPBP CLOSED ENDED



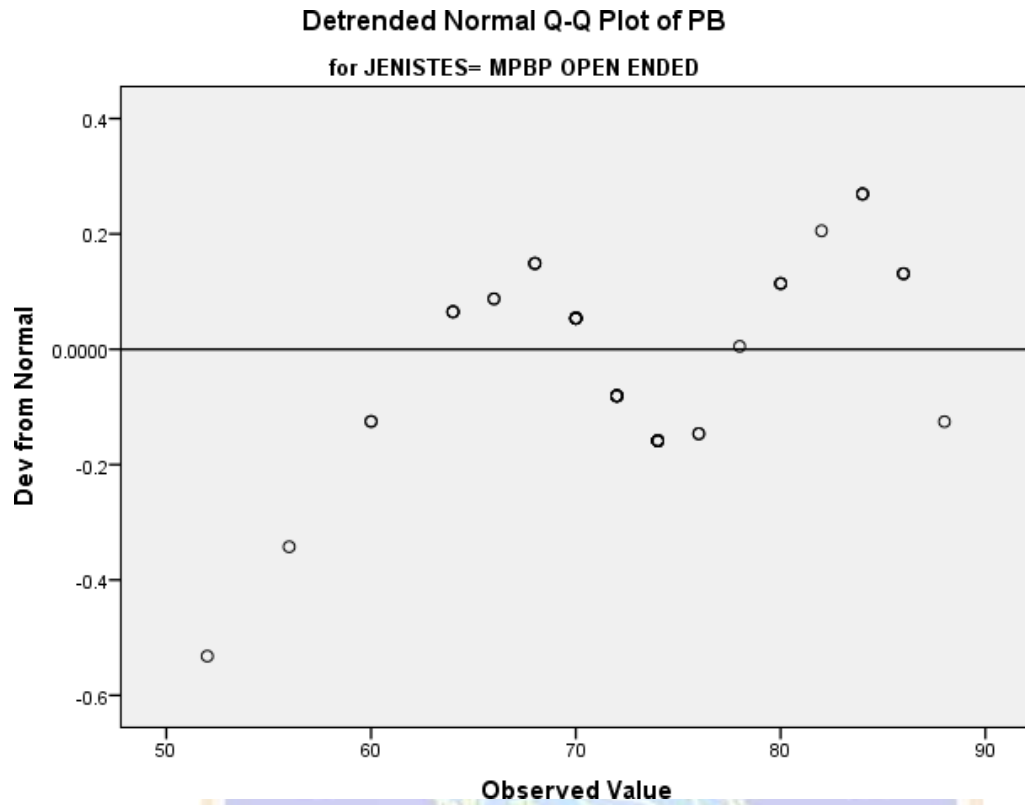
Normal Q-Q Plot of PB
for JENISTES= MPK OPEN ENDED



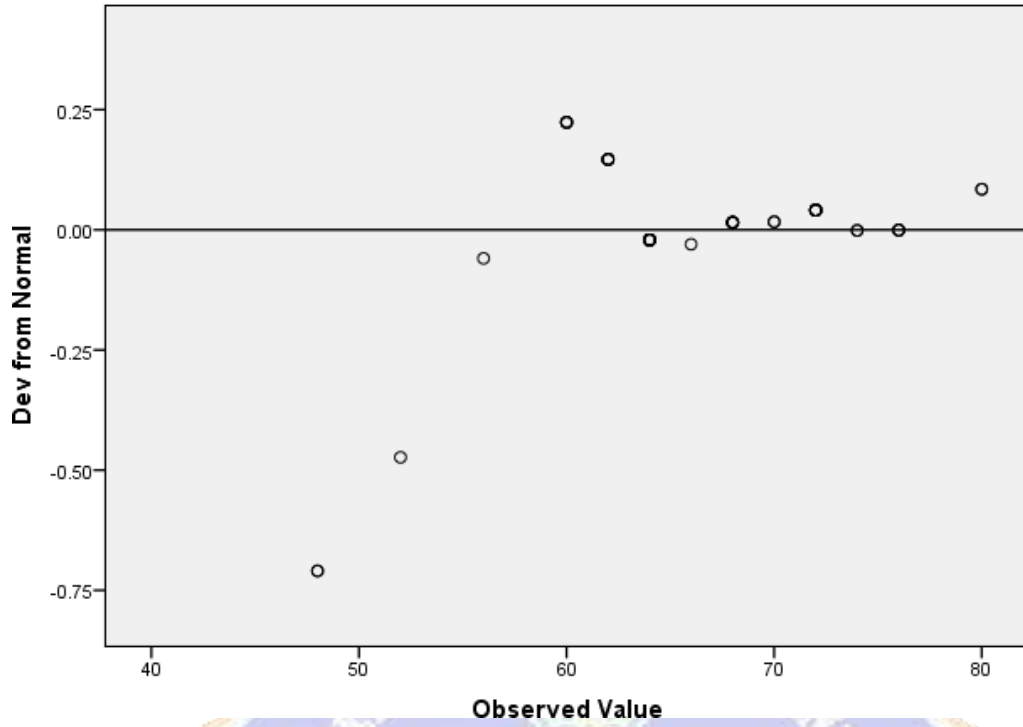
Normal Q-Q Plot of PB
for JENISTES= MPK CLOSED ENDED



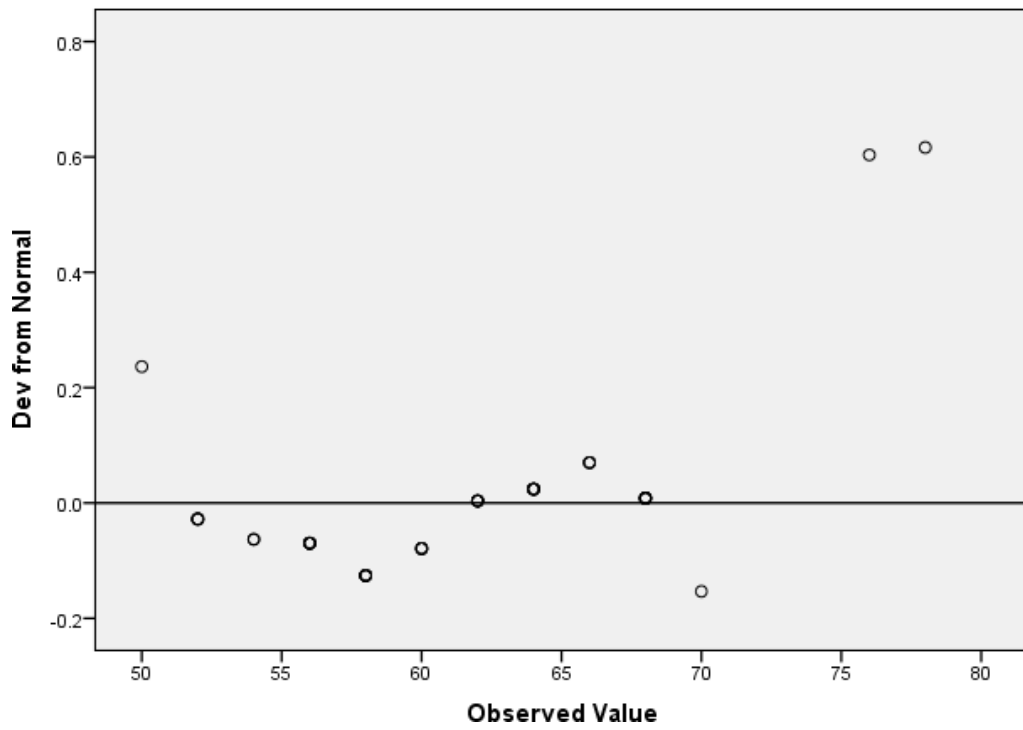
Detrended Normal Q-Q Plots

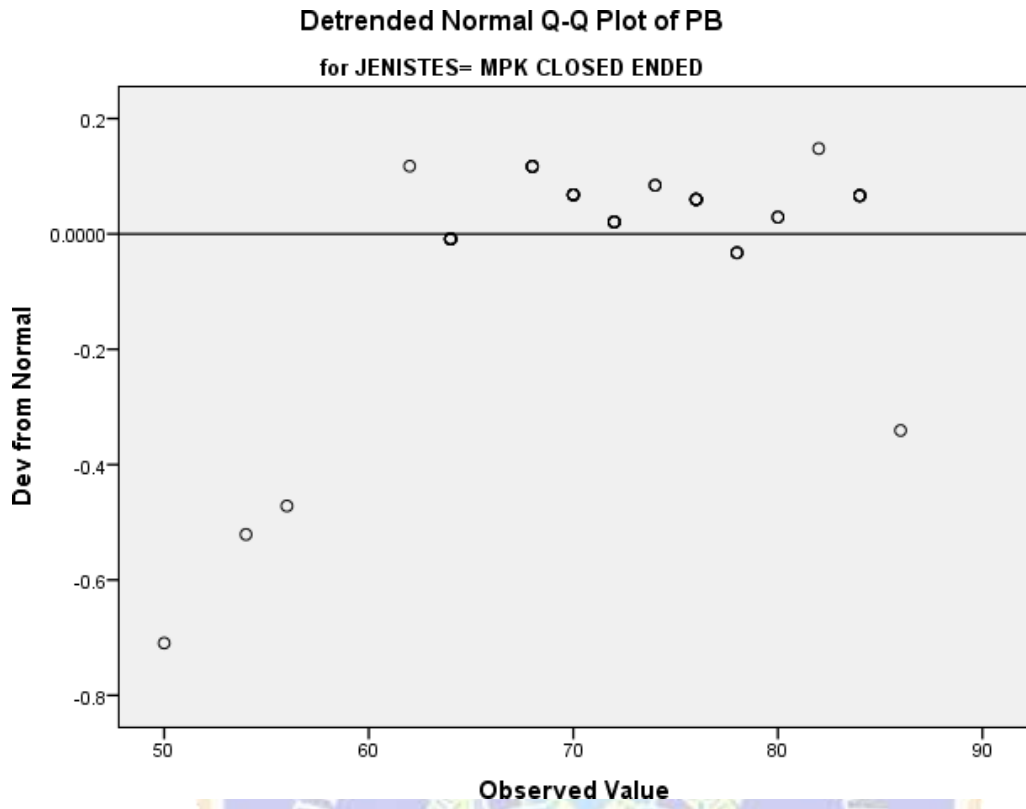


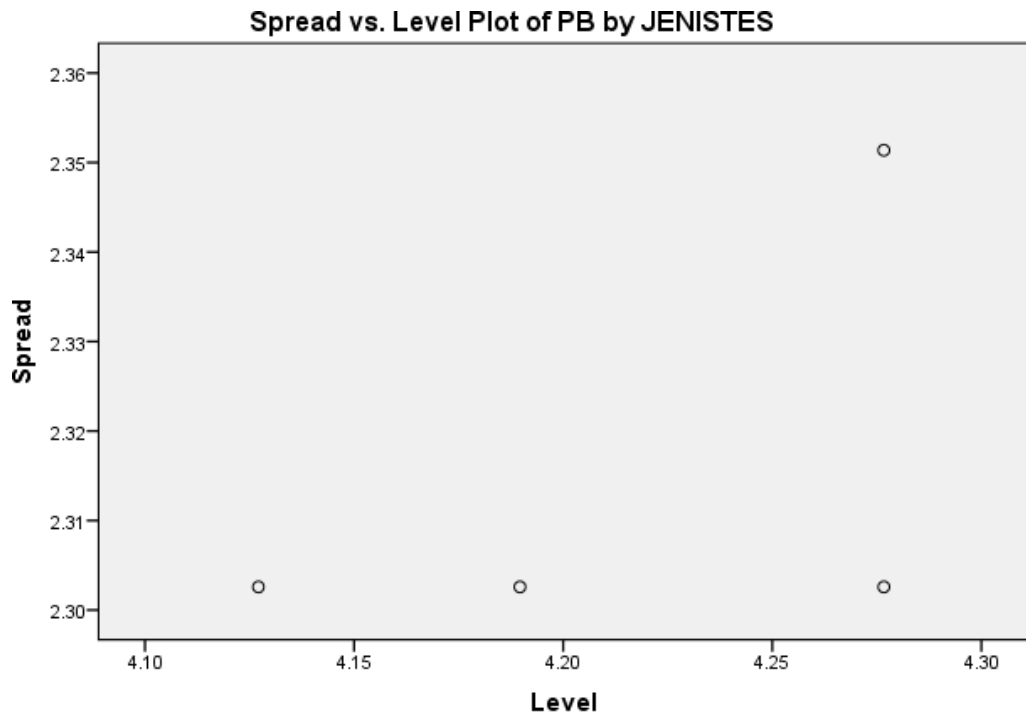
Detrended Normal Q-Q Plot of PB
for JENISTES= MPBP CLOSED ENDED



Detrended Normal Q-Q Plot of PB
for JENISTES= MPK OPEN ENDED







* Plot of LN of Spread vs LN of Level
Slope = .181 Power for transformation = .819



Hasil Analisis Normalitas Jenis Tes

```
EXAMINE VARIABLES=PB BY JENISTES
  /PLOT NPLOT
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

		Notes
Output Created		30-APR-2023 11:09:25
Comments		
Input	Data	D:\PROPOSAL TESIS SUGI PEP UNDIKSHA\DATA PENELITIAN\DATA MENTAH ANAVA DUA JALUR 123.sav
	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	190
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.
Syntax		EXAMINE VARIABLES=PB BY JENISTES /PLOT NPLOT /STATISTICS DESCRIPTIVES /CINTERVAL 95 /MISSING LISTWISE /NOTOTAL.
Resources	Processor Time	00:00:01,11
	Elapsed Time	00:00:01,08

[DataSet0] D:\PROPOSAL TESIS SUGI PEP UNDIKSHA\DATA
 PENELITIAN\DATA MENTAH ANAVA DUA JALUR 123.sav

JENISTES

Case Processing Summary

		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
PB	OPEN ENDED	93	100.0%	0	0.0%	93	100.0%
	CLOSE ENDED	94	100.0%	0	0.0%	94	100.0%

Descriptives

JENISTES		Statistic	Std. Error		
PB	OPEN ENDED	Mean	66.92	.951	
		95% Confidence Interval for Mean	Lower Bound	65.04	
		Upper Bound	68.81		
		5% Trimmed Mean		66.71	
		Median		68.00	
		Variance		84.049	
		Std. Deviation		9.168	
		Minimum		50	
		Maximum		88	
		Range		38	
		Interquartile Range		12	
		Skewness		.308	.250
		Kurtosis		-.472	.495
		CLOSE ENDED		Mean	69.23
95% Confidence Interval for Mean	Lower Bound			67.56	
Upper Bound	70.90				
5% Trimmed Mean				69.45	
Median				70.00	
Variance				66.504	
Std. Deviation				8.155	

Minimum	48	
Maximum	86	
Range	38	
Interquartile Range	12	
Skewness	-.270	.249
Kurtosis	.129	.493

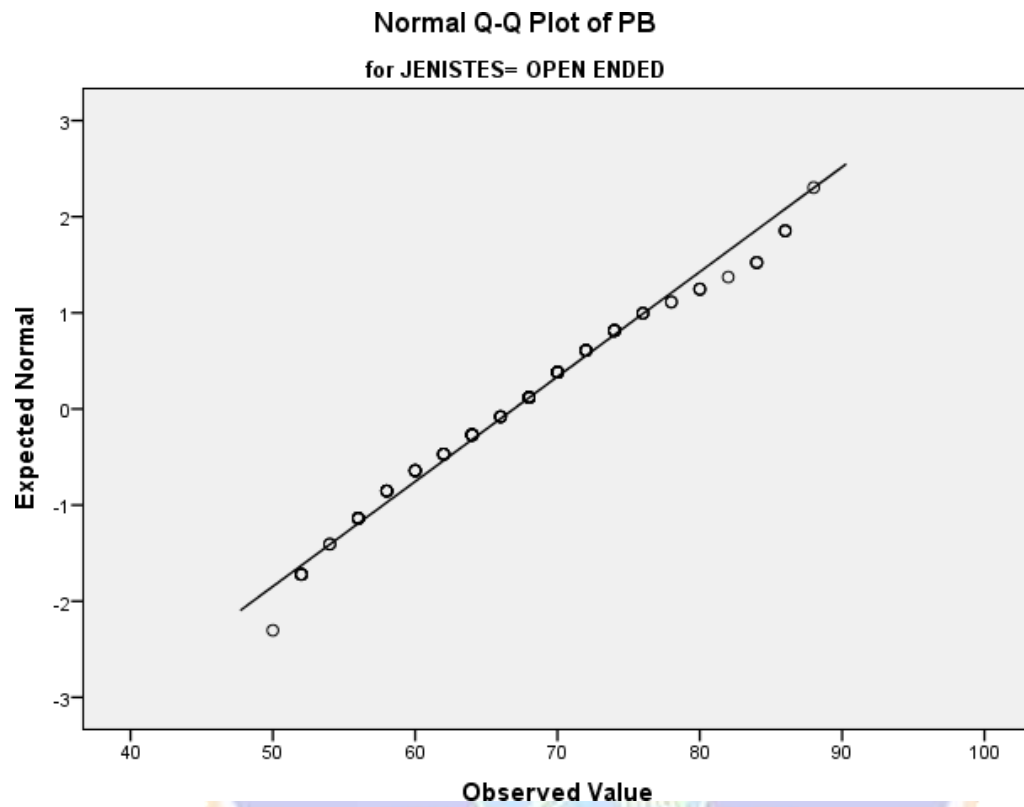
Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
PB	OPEN ENDED	.068	93	.200 [*]	.974	93	.057
	CLOSE ENDED	.091	94	.055	.975	94	.067

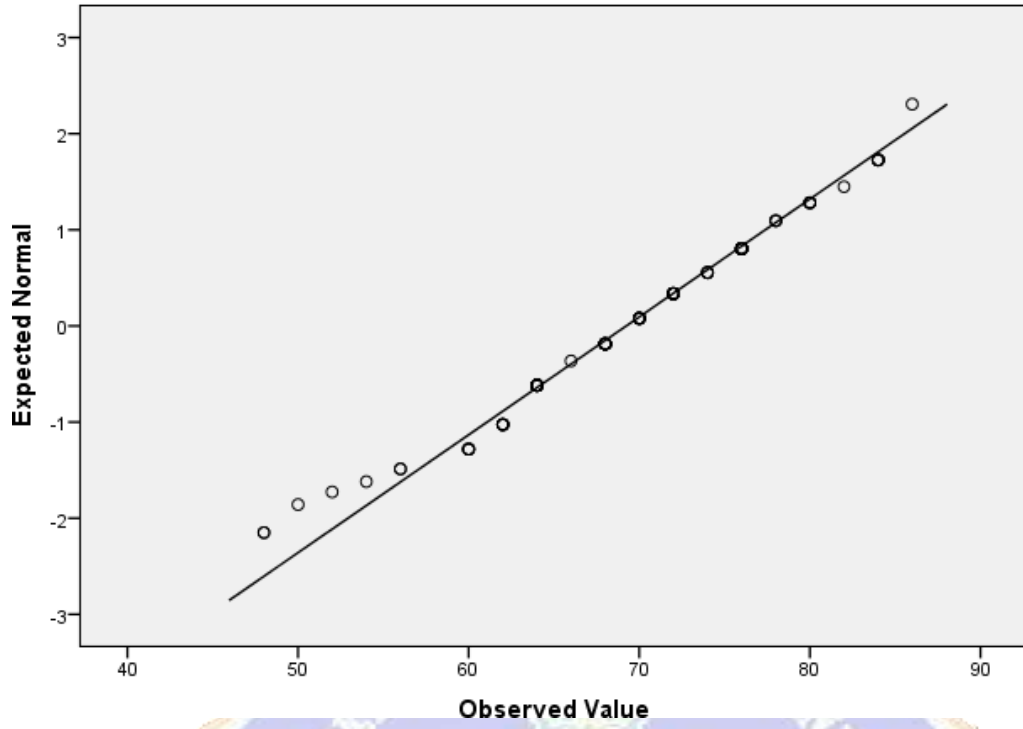
*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

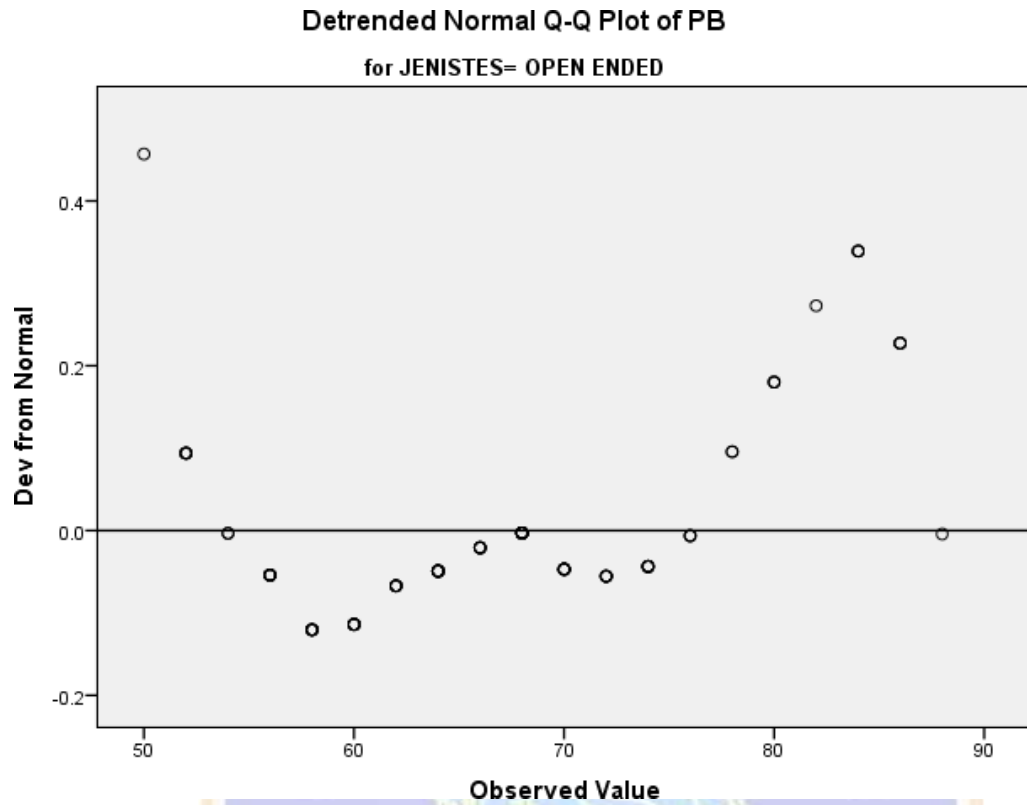


PB**Normal Q-Q Plots**

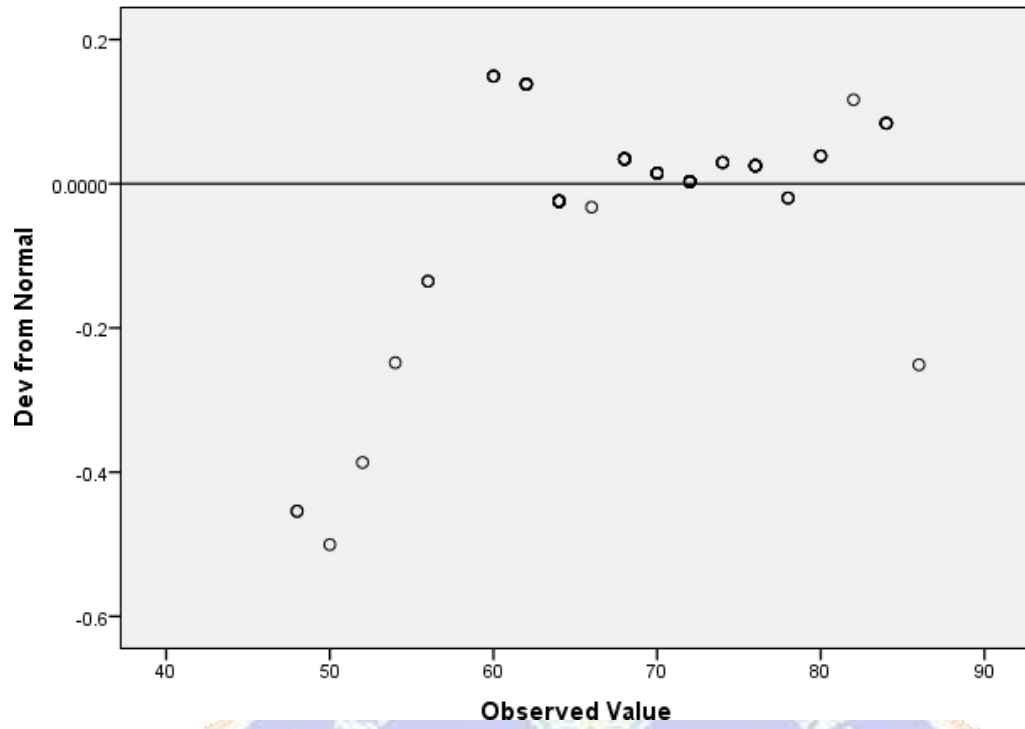
Normal Q-Q Plot of PB
for JENISTES= CLOSE ENDED



Detrended Normal Q-Q Plots



Detrended Normal Q-Q Plot of PB
for JENISTES= CLOSE ENDED



Hasil Analisis Deskriptif MP dan Jenis Tes

```

FREQUENCIES VARIABLES=MPBPPB MPKPB OPEN CLOSEN
  /STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN
SUM
  /HISTOGRAM NORMAL
  /ORDER=ANALYSIS.

```

Frequencies

		Notes
Output Created		30-APR-2023 15:17:21
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
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	N of Rows in Working Data File	94
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
Syntax		FREQUENCIES VARIABLES=MPBPPB MPKPB OPEN CLOSEN /STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN SUM /HISTOGRAM NORMAL /ORDER=ANALYSIS.
Resources	Processor Time	00:00:02,23
	Elapsed Time	00:00:01,59

[DataSet0]

Statistics

		MPBP-PB	MPK-PB	JENIS TES OPEN ENDED	JENIS TES CLOSED ENDED
N	Valid	93	94	93	94
	Missing	1	0	1	0
Mean		69.40	66.79	66.92	69.23
Median		70.00	67.00	68.00	70.00
Std. Deviation		8.208	9.069	9.168	8.155
Variance		67.373	82.255	84.049	66.504
Range		40	36	38	38
Minimum		48	50	50	48
Maximum		88	86	88	86
Sum		6454	6278	6224	6508

Frequency Table

MPBP-PB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	48	2	2.1	2.2	2.2
	52	2	2.1	2.2	4.3
	56	2	2.1	2.2	6.5
	60	6	6.4	6.5	12.9
	62	5	5.3	5.4	18.3
	64	13	13.8	14.0	32.3
	66	3	3.2	3.2	35.5
	68	11	11.7	11.8	47.3
	70	10	10.6	10.8	58.1
	72	12	12.8	12.9	71.0
	74	8	8.5	8.6	79.6
	76	5	5.3	5.4	84.9
	78	1	1.1	1.1	86.0

	80	5	5.3	5.4	91.4
	82	1	1.1	1.1	92.5
	84	3	3.2	3.2	95.7
	86	3	3.2	3.2	98.9
	88	1	1.1	1.1	100.0
	Total	93	98.9	100.0	
Missing	System	1	1.1		
Total		94	100.0		

MPK-PB

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	2	2.1	2.1	2.1
	52	4	4.3	4.3	6.4
	54	3	3.2	3.2	9.6
	56	7	7.4	7.4	17.0
	58	6	6.4	6.4	23.4
	60	4	4.3	4.3	27.7
	62	6	6.4	6.4	34.0
	64	12	12.8	12.8	46.8
	66	3	3.2	3.2	50.0
	68	11	11.7	11.7	61.7
	70	7	7.4	7.4	69.1
	72	5	5.3	5.3	74.5
	74	2	2.1	2.1	76.6
	76	9	9.6	9.6	86.2
	78	4	4.3	4.3	90.4
	80	2	2.1	2.1	92.6
	82	1	1.1	1.1	93.6
	84	5	5.3	5.3	98.9
	86	1	1.1	1.1	100.0
	Total	94	100.0	100.0	

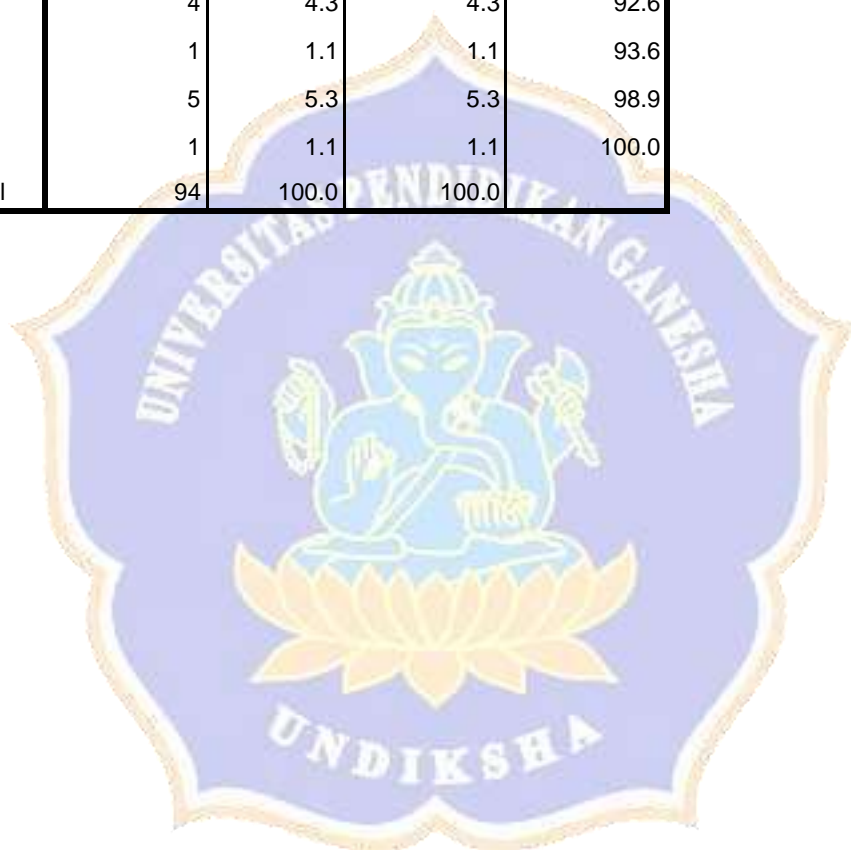
JENIS TES OPEN ENDED

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	1	1.1	1.1	1.1
	52	5	5.3	5.4	6.5
	54	2	2.1	2.2	8.6
	56	7	7.4	7.5	16.1
	58	6	6.4	6.5	22.6
	60	6	6.4	6.5	29.0
	62	5	5.3	5.4	34.4
	64	9	9.6	9.7	44.1
	66	5	5.3	5.4	49.5
	68	10	10.6	10.8	60.2
	70	9	9.6	9.7	69.9
	72	6	6.4	6.5	76.3
	74	6	6.4	6.5	82.8
	76	3	3.2	3.2	86.0
	78	2	2.1	2.2	88.2
	80	3	3.2	3.2	91.4
	82	1	1.1	1.1	92.5
	84	3	3.2	3.2	95.7
	86	3	3.2	3.2	98.9
	88	1	1.1	1.1	100.0
	Total	93	98.9	100.0	
Missing	System	1	1.1		
Total		94	100.0		

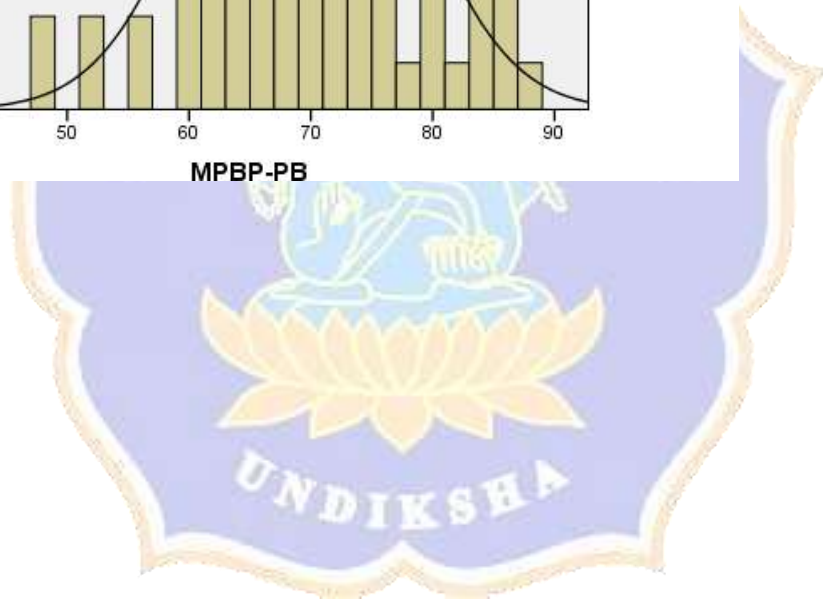
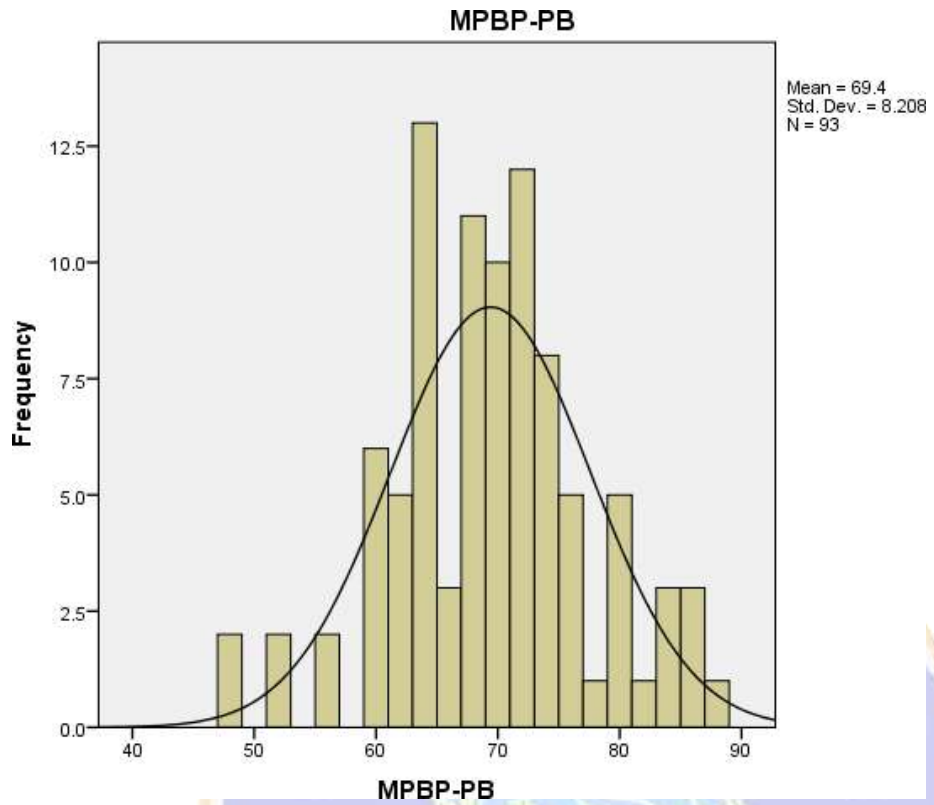
JENIS TES CLOSED ENDED

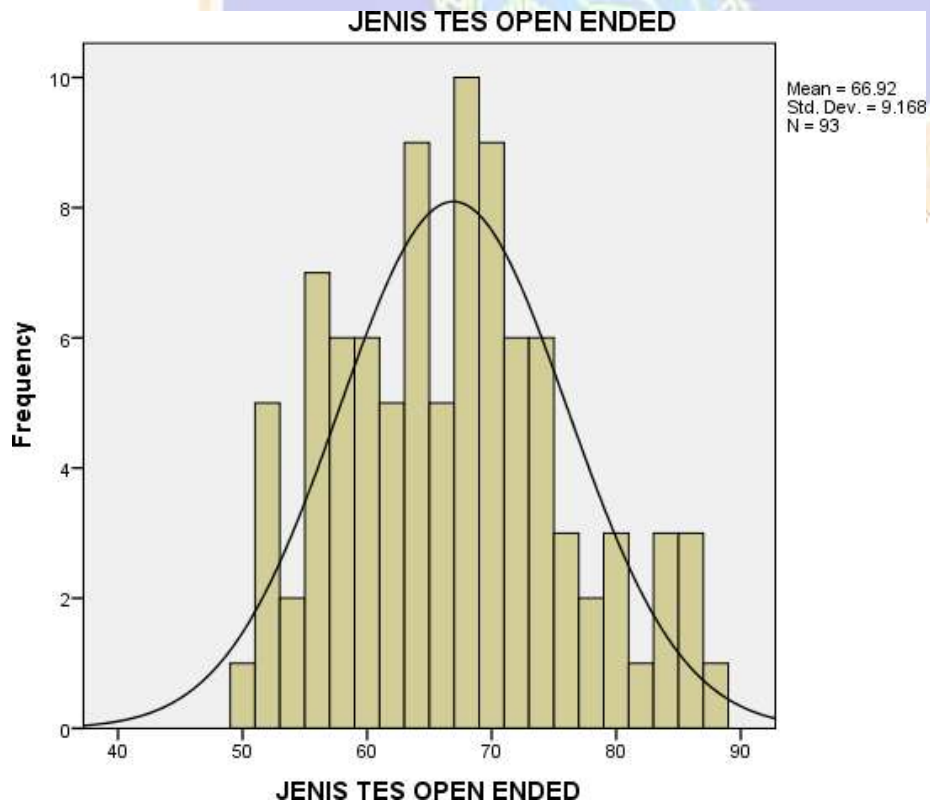
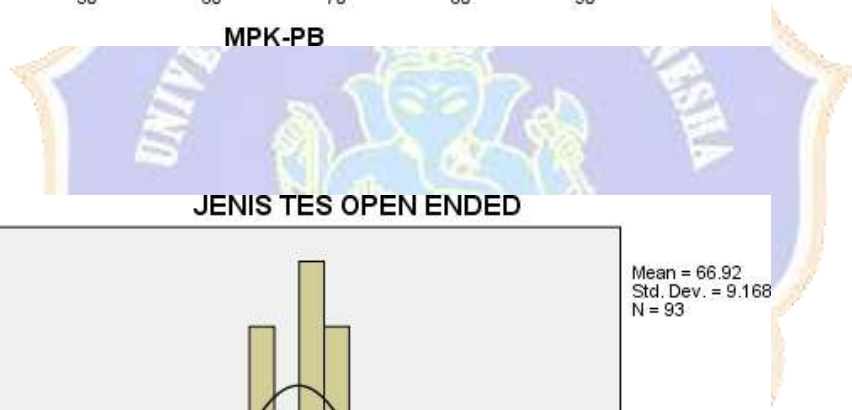
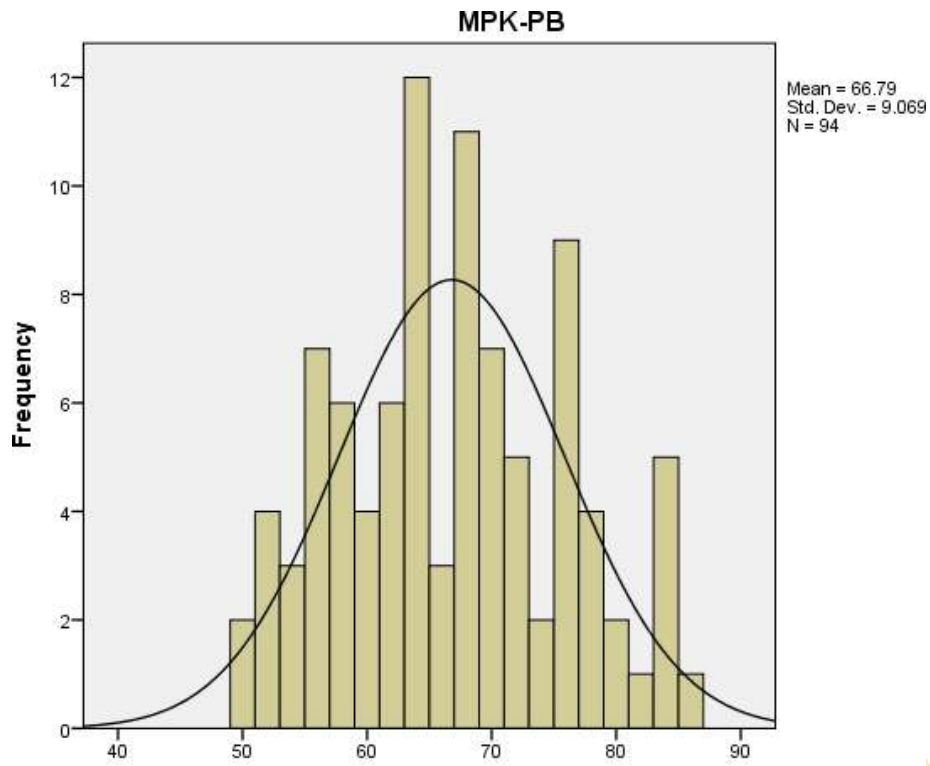
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	48	2	2.1	2.1	2.1
	50	1	1.1	1.1	3.2
	52	1	1.1	1.1	4.3
	54	1	1.1	1.1	5.3
	56	2	2.1	2.1	7.4

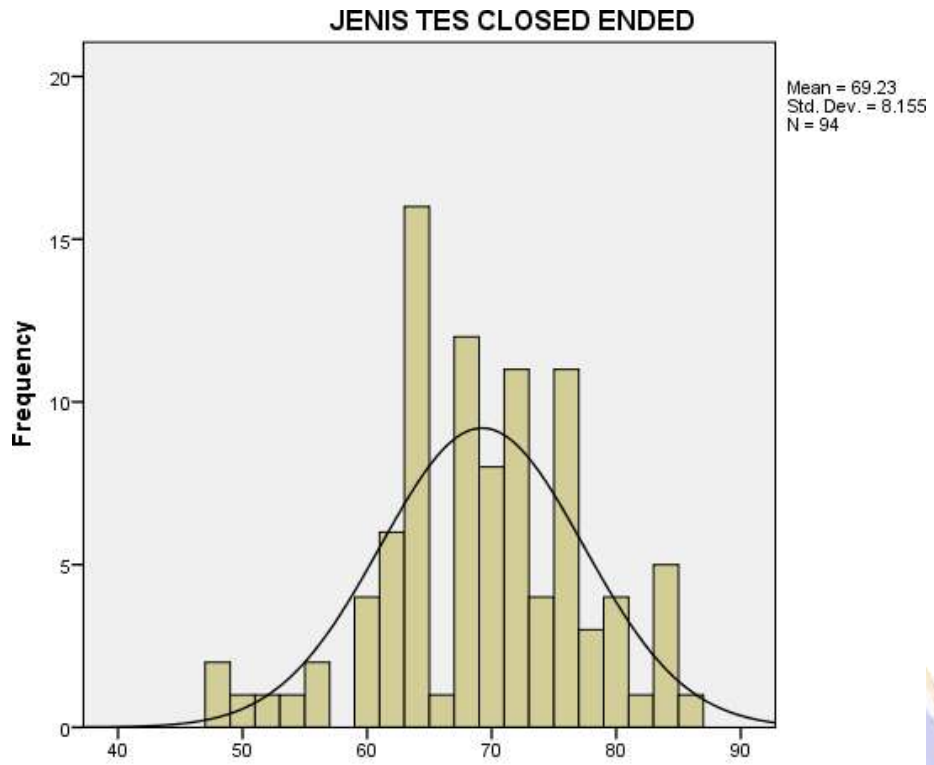
60	4	4.3	4.3	11.7
62	6	6.4	6.4	18.1
64	16	17.0	17.0	35.1
66	1	1.1	1.1	36.2
68	12	12.8	12.8	48.9
70	8	8.5	8.5	57.4
72	11	11.7	11.7	69.1
74	4	4.3	4.3	73.4
76	11	11.7	11.7	85.1
78	3	3.2	3.2	88.3
80	4	4.3	4.3	92.6
82	1	1.1	1.1	93.6
84	5	5.3	5.3	98.9
86	1	1.1	1.1	100.0
Total	94	100.0	100.0	



Histogram







Hasil analisis Statistik Deskriptif tiap sel

```
FREQUENCIES VARIABLES=MPBPOPEN MPBPCLOSEN MPKOPEN MPKCLOSEN
  /STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN
SUM
  /HISTOGRAM NORMAL
  /ORDER=ANALYSIS.
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Frequencies

		Notes
Output Created		30-APR-2023 15:07:49
Comments		
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	Weight	<none>
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	N of Rows in Working Data File	47
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics are based on all cases with valid data.
Syntax		<pre>FREQUENCIES VARIABLES=MPBPOPEN MPBPCLOSEN MPKOPEN MPKCLOSEN /STATISTICS=STDDEV VARIANCE RANGE MINIMUM MAXIMUM MEAN MEDIAN SUM /HISTOGRAM NORMAL /ORDER=ANALYSIS.</pre>
Resources	Processor Time	00:00:02,26
	Elapsed Time	00:00:01,59

[DataSet0]

Statistics

		MPBP- OPEN ENDED	MPBP- CLOSED ENDED	MPK-OPEN ENDED	MPK- CLOSED ENDED
N	Valid	46	47	47	47
	Missing	1	0	0	0
Mean		72.65	66.21	61.32	72.26
Median		72.00	66.00	62.00	72.00
Std. Deviation		8.067	7.080	6.287	8.104
Variance		65.076	50.128	39.526	65.673
Range		36	32	28	36
Minimum		52	48	50	50
Maximum		88	80	78	86
Sum		3342	3112	2882	3396

Frequency Table**MPBP-OPEN ENDED**

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	52	1	2.1	2.2	2.2
	56	1	2.1	2.2	4.3
	60	2	4.3	4.3	8.7
	64	3	6.4	6.5	15.2
	66	2	4.3	4.3	19.6
	68	3	6.4	6.5	26.1
	70	8	17.0	17.4	43.5
	72	6	12.8	13.0	56.5
	74	6	12.8	13.0	69.6
	76	2	4.3	4.3	73.9

	78	1	2.1	2.2	76.1
	80	3	6.4	6.5	82.6
	82	1	2.1	2.2	84.8
	84	3	6.4	6.5	91.3
	86	3	6.4	6.5	97.8
	88	1	2.1	2.2	100.0
	Total	46	97.9	100.0	
Missing	System	1	2.1		
Total		47	100.0		

MPBP-CLOSED ENDED

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	48	2	4.3	4.3	4.3
	52	1	2.1	2.1	6.4
	56	1	2.1	2.1	8.5
	60	4	8.5	8.5	17.0
	62	5	10.6	10.6	27.7
	64	10	21.3	21.3	48.9
	66	1	2.1	2.1	51.1
	68	8	17.0	17.0	68.1
	70	2	4.3	4.3	72.3
	72	6	12.8	12.8	85.1
	74	2	4.3	4.3	89.4
	76	3	6.4	6.4	95.7
	80	2	4.3	4.3	100.0
Total		47	100.0	100.0	

MPK-OPEN ENDED

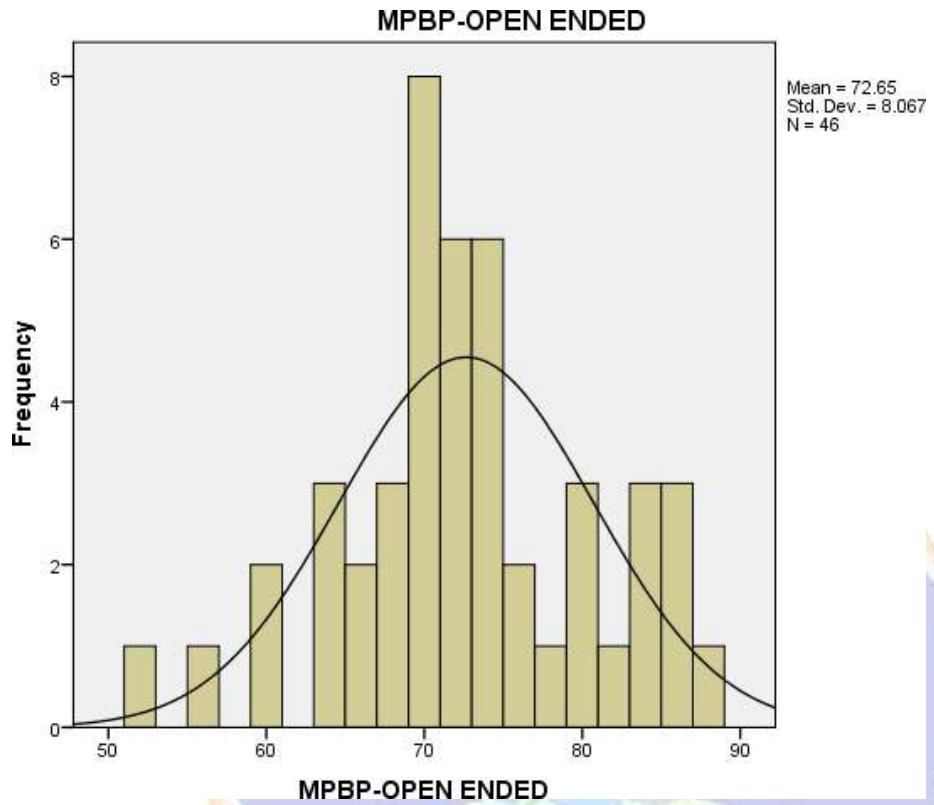
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	1	2.1	2.1	2.1
	52	4	8.5	8.5	10.6
	54	2	4.3	4.3	14.9
	56	6	12.8	12.8	27.7

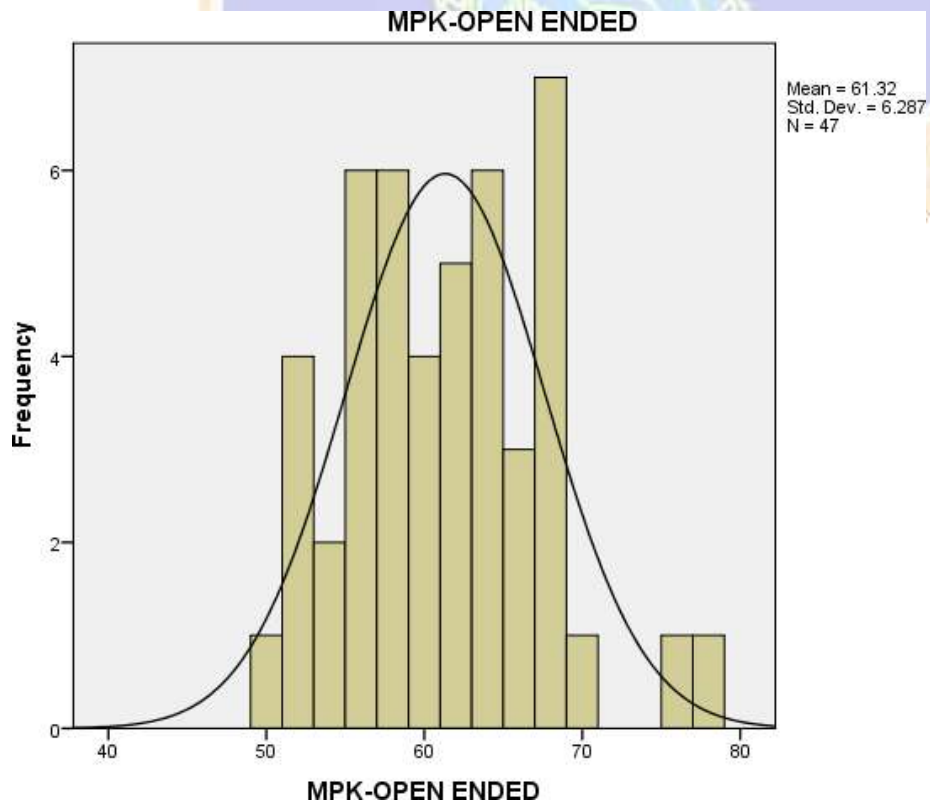
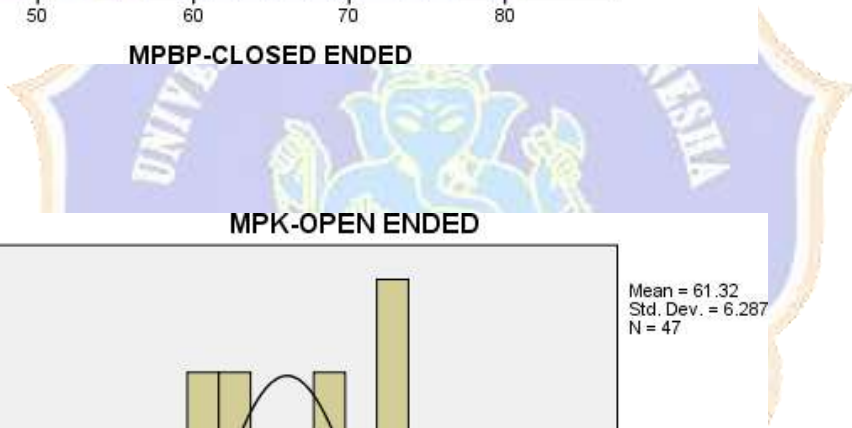
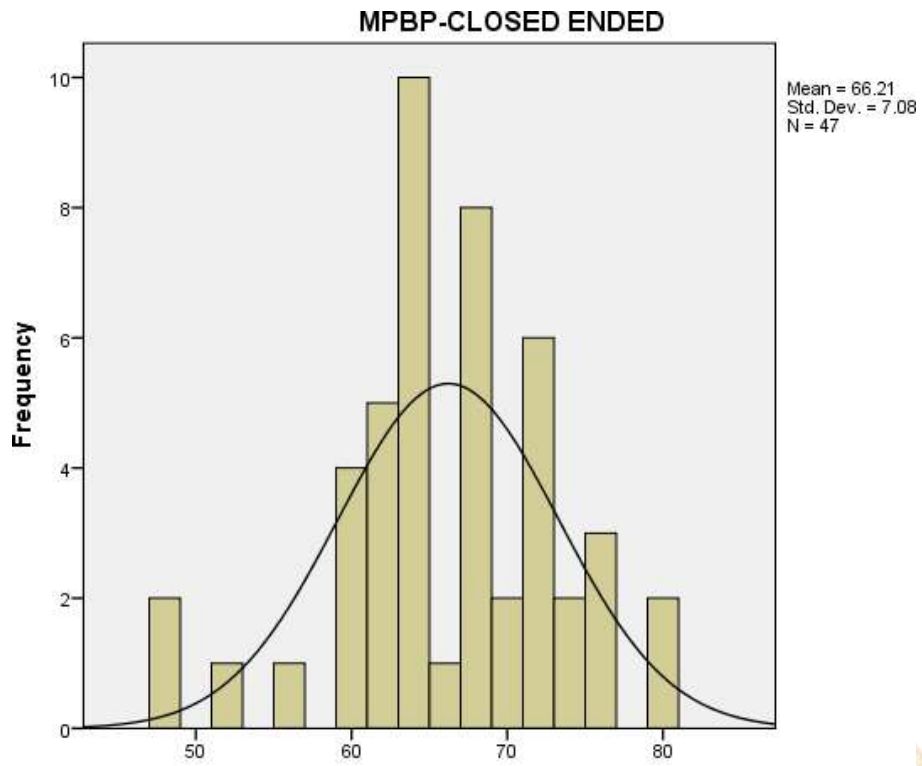
58	6	12.8	12.8	40.4
60	4	8.5	8.5	48.9
62	5	10.6	10.6	59.6
64	6	12.8	12.8	72.3
66	3	6.4	6.4	78.7
68	7	14.9	14.9	93.6
70	1	2.1	2.1	95.7
76	1	2.1	2.1	97.9
78	1	2.1	2.1	100.0
Total	47	100.0	100.0	

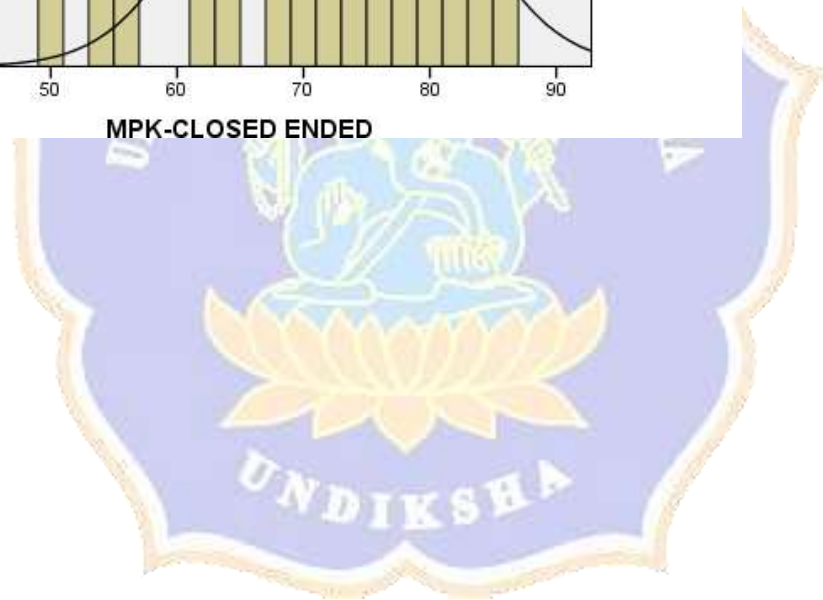
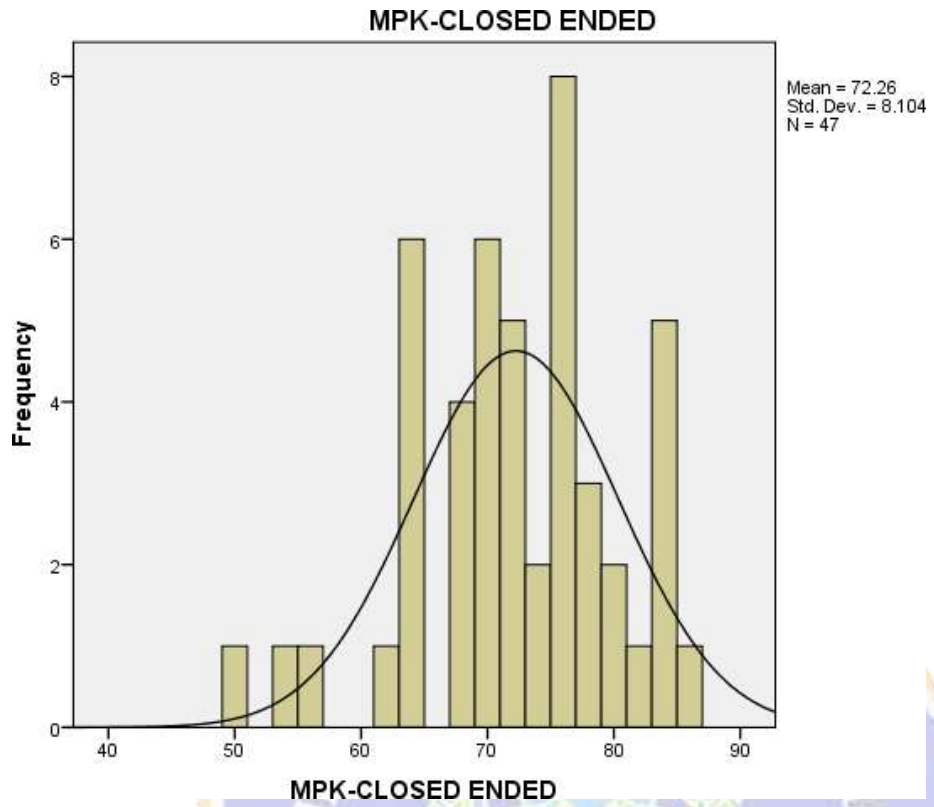
MPK-CLOSED ENDED

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	50	1	2.1	2.1	2.1
	54	1	2.1	2.1	4.3
	56	1	2.1	2.1	6.4
	62	1	2.1	2.1	8.5
	64	6	12.8	12.8	21.3
	68	4	8.5	8.5	29.8
	70	6	12.8	12.8	42.6
	72	5	10.6	10.6	53.2
	74	2	4.3	4.3	57.4
	76	8	17.0	17.0	74.5
	78	3	6.4	6.4	80.9
	80	2	4.3	4.3	85.1
	82	1	2.1	2.1	87.2
	84	5	10.6	10.6	97.9
	86	1	2.1	2.1	100.0
Total		47	100.0	100.0	

Histogram







Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika siswa pasangan kelompok model pembelajaran (MPBP-MPK)

$$LSD = t_{\alpha, \frac{1}{2}N-a} \sqrt{\frac{2MS_e}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 187

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 93

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;187-2)} = t_{(0,025;185)} = 1,972$. Berdasarkan analisis ANOVA 2 X 2 diperoleh nilai MS_e untuk variabel *dependent* PB siswa adalah 55,046

Maka besar penolakan LSD untuk PB adalah

$$\begin{aligned} LSD &= t_{\left(\frac{0,05}{2}; 187-2\right)} \sqrt{\frac{2MS_e}{n}} \\ &= 1,972 \sqrt{\frac{2 \times 55,046}{93}} \\ &= 1,972 \sqrt{1,184} \\ &= 2,146 \end{aligned}$$

Karena $|\mu_{\text{MPBP}} - \mu_{\text{MPK}}| = |\mu_i - \mu_j| = 2,645$ untuk variabel prestasi belajar matematika siswa (hasil analisis ANOVA 2 jalur)

Maka $|\mu_i - \mu_j| > LSD$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai prestasi belajar*

matematika siswa antar kelompok model pembelajaran

Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika siswa pasangan kelompok permasalahan open ended dan closed ended

$$LSD = t_{\alpha, \frac{1}{2}(N-a)} \sqrt{\frac{2MS_e}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 187

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 93

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;187-2)} = t_{(0,025;185)} = 1,972$. Berdasarkan analisis ANOVA 2 X 2 diperoleh nilai MS_e untuk variabel *dependent* KBK siswa adalah 55,046

Maka besar penolakan LSD untuk PB adalah

$$\begin{aligned} LSD &= t_{\left(\frac{0,05}{2}; 187-2\right)} \sqrt{\frac{2MS_e}{n}} \\ &= 1,972 \sqrt{\frac{2 \times 55,046}{93}} \\ &= 1,972 \sqrt{1,184} \\ &= 2,145 \end{aligned}$$

Karena $|\mu_{\text{open ended}} - \mu_{\text{closed ended}}| = |\mu_i - \mu_j| = 2,248$ untuk variabel prestasi belajar matematika siswa (hasil analisis ANOVA 2 jalur)

Maka $|\mu_i - \mu_j| > LSD$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai prestasi belajar*

matematika siswa antar kelompok pembelajaran dengan jenis tes

Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika kelompok siswa yang mengikuti pembelajaran dengan jenis tes open ended pasangan kelompok model pembelajaran (MPBP-MPK)

$$LSD = t_{\alpha} \sqrt{\frac{2MSE}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 93

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 46

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;93-2)} = t_{(0,025;91)} = 1,986$. Berdasarkan analisis ANOVA 2 jalur diperoleh nilai MS_{ε} untuk variabel *dependent* nilai PB siswa yang mengikuti pembelajaran dengan jenis tes open ended adalah 52,234

Maka besar penolakan LSD untuk PB siswa yang mengikuti pembelajaran dengan jenis tes open ended adalah

$$\begin{aligned} LSD &= t_{\left(\frac{0,05}{2}; 92-2\right)} \sqrt{\frac{2MSE}{n}} \\ &= 1,986 \sqrt{\frac{2 \times 52,234}{46}} \\ &= 1,986 \sqrt{2,271} \\ &= 2,992 \end{aligned}$$

Karena $|\mu_{\text{MPBP}} - \mu_{\text{MPK}}| = |\mu_i - \mu_j| = 11,478$ untuk variabel PB siswa yang mengikuti pembelajaran dengan jenis tes open ended (hasil analisis ANOVA 2 jalur). Maka $|\mu_i - \mu_j| > LSD$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai rata-rata prestasi belajar matematika siswa yang mengikuti pembelajaran dengan jenis tes open ended antar kelompok model pembelajaran*



Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika kelompok siswa yang mengikuti pembelajaran dengan jenis tes closed ended pasangan kelompok model pembelajaran (MPBP-MPK)

$$LSD = t_{\alpha} \sqrt{\frac{2MS_e}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 94

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 47

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;94-2)} = t_{(0,025;92)} = 1,986$. Berdasarkan analisis ANOVA 2 jalur diperoleh nilai MS_e untuk variabel *dependent* nilai PB siswa yang mengikuti pembelajaran dengan jenis tes closed ended adalah 57,900

Maka besar penolakan LSD untuk PB siswa yang mengikuti pembelajaran dengan jenis tes closed ended adalah

$$\begin{aligned} LSD &= t_{\left(\frac{0,05}{2}; 94-2\right)} \sqrt{\frac{2MS_e}{n}} \\ &= 1,986 \sqrt{\frac{2 \times 57,900}{47}} \\ &= 1,986 \sqrt{2,464} \\ &= 3,117 \end{aligned}$$

Karena $|\mu_{\text{MPBP}} - \mu_{\text{MPK}}| = |\mu_i - \mu_j| = 6,043$ untuk variabel prestasi belajar matematika siswa yang mengikuti pembelajaran dengan jenis tes closed ended (hasil analisis ANOVA 2 jalur). Maka $|\mu_i - \mu_j| > LSD$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai rata-rata prestasi belajar matematika siswa yang mengikuti pembelajaran dengan jenis tes closed ended antar kelompok model pembelajaran*



Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika antara siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan *closed ended* pada siswa yang mengikuti model pembelajaran berbasis proyek

$$LSD = t_{\alpha} \sqrt{\frac{2MS_e}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 93

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 46

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;93-2)} = t_{(0,025;91)} = 1,986$. Berdasarkan analisis ANOVA 2 jalur diperoleh nilai MS_e untuk variabel *dependent* nilai PB siswa yang mengikuti pembelajaran dengan prestasi belajar matematika antara siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan *closed ended* pada siswa yang mengikuti model pembelajaran berbasis proyek adalah 57,520

Maka besar penolakan LSD untuk PB siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan *closed ended* pada siswa yang mengikuti model pembelajaran berbasis proyek adalah

$$LSD = t_{\left(\frac{0,05}{2};93-2\right)} \sqrt{\frac{2MS_e}{n}}$$

$$= 1,986 \sqrt{\frac{2 \times 57,520}{46}}$$

$$= 1,986 \sqrt{2,501}$$

$$= 3,141$$

Karena $|\mu_{\text{open ended}} - \mu_{\text{closed ended}}| = |\mu_i - \mu_j| = 6,439$ untuk variabel prestasi belajar matematika siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan

closed ended pada siswa yang mengikuti model pembelajaran berbasis proyek (hasil analisis ANOVA 2 jalur). Maka $|\mu_i - \mu_j| > \text{LSD}$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai rata-rata prestasi belajar matematika antara siswa yang mengikuti pembelajaran dengan jenis tes open ended dan closed ended pada siswa yang mengikuti model pembelajaran berbasis proyek*



Metode Least Significant Difference(LSD)

Perbedaan nilai rata-rata prestasi belajar matematika antara siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan *closed ended* pada siswa yang mengikuti pembelajaran konvensional

$$LSD = t_{\alpha, \frac{1}{2}N-a} \sqrt{\frac{2MSE}{n}}$$

Dengan, α = taraf signifikan = 0,05

N = jumlah sampel total = 94

a = jumlah kelompok = 2

n = jumlah sampel dalam kelompok = 47

MSE = Mean Square Error

Maka nilai $t_{\text{tabel}} = t_{(0,05/2;94-2)} = t_{(0,025;92)} = 1,986$. Berdasarkan analisis ANOVA 2 jalur diperoleh nilai MS_e untuk variabel *dependent* nilai PB siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan siswa yang mengikuti pembelajaran dengan jenis tes *closed ended* pada siswa yang mengikuti model pembelajaran konvensional adalah 52,599

Maka besar penolakan LSD untuk PB siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan *closed ended* pada siswa yang mengikuti model pembelajaran konvensional adalah

$$LSD = t_{\left(\frac{0,05}{2}; 94-2\right)} \sqrt{\frac{2MSE}{n}}$$

$$= 1,986 \sqrt{\frac{2 \times 52,599}{47}}$$

$$= 1,986 \sqrt{2,238}$$

$$= 2,971$$

Karena $|\mu_{\text{open ended}} - \mu_{\text{closed ended}}| = |\mu_i - \mu_j| = 10,936$ untuk variabel prestasi belajar matematika siswa yang mengikuti pembelajaran dengan jenis tes *open ended* dan

closed ended pada siswa yang mengikuti model pembelajaran konvensional (hasil analisis ANOVA 2 jalur). Maka $|\mu_i - \mu_j| > \text{LSD}$, yang artinya H_0 ditolak.

Kesimpulan : *terdapat perbedaan yang signifikan nilai rata-rata prestasi belajar matematika antara siswa yang mengikuti pembelajaran dengan jenis tes open ended dan closed ended pada siswa yang mengikuti pembelajaran konvensional*



RIWAYAT HIDUP



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