

BAB V

KESIMPULAN DAN SARAN

A. Kesimpulan

Kesimpulan yang didapat berdasarkan hasil penelitian dan data-data terhadap uji mutu fisik krim adalah:

1. Minyak Wijen (*Virgin Sesame Oil*) dapat dibuat menjadi sediaan krim dengan konsentrasi 3,75%, 5,25% dan 7%.
2. Semakin meningkat konsentrasi minyak wijen (*Virgin Sesame Oil*) dalam sediaan krim berpengaruh terhadap kenaikan viskositas, kenaikan daya lekat dan penurunan daya sebar.

B. Saran

Saran yang didapat dari hasil penelitian krim minyak wijen adalah:

1. Perlu dilakukan penelitian lebih lanjut tentang pembuatan krim minyak wijen dengan basis lain, untuk mendapatkan krim dengan mutu fisik yang baik.
2. Perlu dilakukannya uji farmakologi krim minyak wijen (*Virgin Sesame Oil*) lebih lanjut.

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LAMPIRAN 1. Gambar Alat



Gambar 1.1 Alat Viskositas



Gambar 1.2 Alat Daya Lekat



Gambar 1.3 Alat Daya Sebar



Gambar 1.4 Alat pH

LAMPIRAN 2. Gambar Minyak Wijen



LAMPIRAN 3. Gambar Pengujian Krim



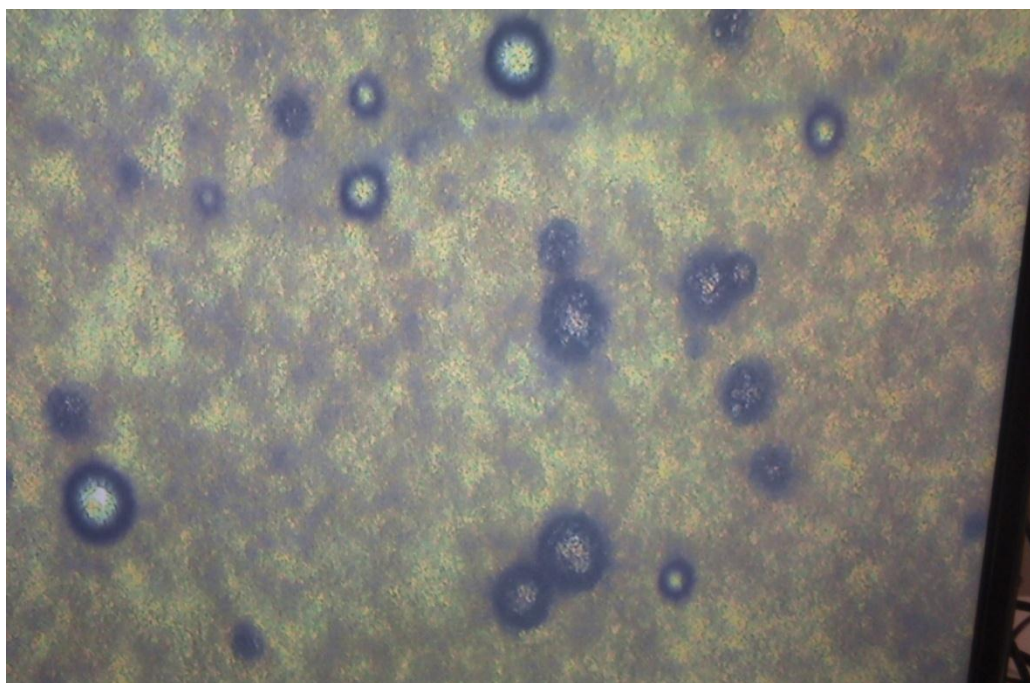
Gambar 3.1 Metilen Blue + Sudan III



Gamabar 3.2 Tipe Krim Homogen



Gambar 3.3

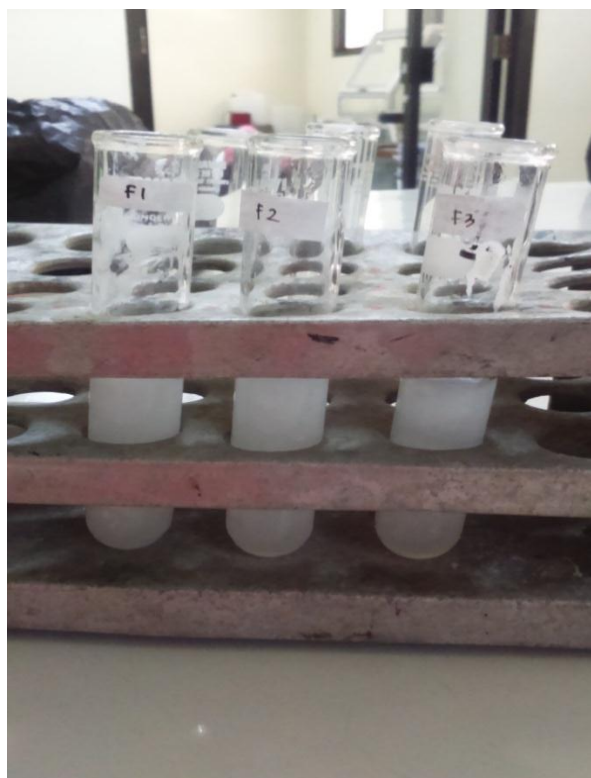


Gambar 3.4 Tipe Krim M/A

LAMPIRAN 4. Gambar Krim Minyak Wijen



LAMPIRAN 5. Gambar Pengenceran



Gambar 5.1 Hasil data uji pengenceran

Pemeriksaan Waktu	Formula 1	Formula 2	Formula 3
Hari ke-2	Homogen	Homogen	Homogen
Hari ke-14	Homogen	Homogen	Homogen
Hari ke-28	Homogen	Homogen	Homogen

LAMPIRAN 6. Data Hasil Uji Viskositas Krim Minyak Wijen

WAKTU	VISKOSITAS (dpas)								
	F1			F2			F3		
	1	2	3	1	2	3	1	2	3
Hari ke-2	130	135	140	140	150	145	170	175	170
Hari ke-14	160	165	165	165	165	170	210	220	210
Hari ke-28	205	200	210	205	210	210	250	235	245

Formula	Rata-Rata Viskositas (dpas)		
	Hari ke-2	Hari ke-14	Hari ke-28
1	135	145	172
2	163	167	213
3	205	208	243

LAMPIRAN 7. Data Hasil Uji pH Krim Minyak Wijen

Formula	Ph		
	Hari ke-2	Hari ke-14	Hari ke-28
1	8	8	8
2	8	8	8
3	8	8	8

LAMPIRAN 8. Data Hasil Uji Daya Lekat Krim Minyak Wijen

a. Data pengujian hari ke-2

Replikasi	Daya lekat (detik)		
	F1	F2	F3
1	2,16	3,12	4,12
2	2,33	3,28	4,21
3	2,53	3,47	4,59

b. Data pengujian hari ke-14

Replikasi	Daya lekat (detik)		
	F1	F2	F3
1	6,12	7,3	9,14
2	6,29	7,6	9,35
3	6,51	7,9	9,56

c. Data pengujian hari ke-28

Replikasi	Daya lekat (detik)		
	F1	F2	F3
1	10,1	11,41	12,2
2	10,5	11,58	12,5
3	10,8	11,59	12,9

d. Rata-rata daya lekat

Formula	Daya lekat (detik)		
	Penyimpanan		
	Hari ke-2	Hari ke-14	Hari ke-28
1	2,34	3,29	4,31
2	6,31	7,6	9,35
3	10,47	11,53	12,53

LAMPIRAN 9. Data Hasil Uji Daya Sebar Krim Minyak Wijen

a. Data pengujian hari ke-2

Formula	Beban (gram)	Replikasi		
		1	2	3
F1	49.12	5.1	5.6	5
	99.12	5.5	6	5.7
	149.12	5.9	6.6	6.6
	199.12	6.5	7.4	7.5
	249.12	6.9	8.5	8.3
F2	49.12	5.6	5.6	6.3
	99.12	6.7	6.6	7.1
	149.12	7.3	7.4	7.8
	199.12	8	8.6	8.6
	249.12	8.8	9.5	9.4
F3	49.12	5.8	6.7	6.5
	99.12	6.8	7.3	7.1
	149.12	7.8	8.3	8
	199.12	8.4	8.8	9
	249.12	9.2	9.7	9.7

b. Data pengujian hari ke-14

Formula	Beban (gram)	Replikasi		
		1	2	3
F1	49.12	4.4	5.1	4.7
	99.12	4.9	5.6	5.2
	149.12	5.2	6.2	5.6
	199.12	5.6	6.5	5.9
	249.12	6	7.2	6.6
F2	49.12	5.1	5	4.9
	99.12	5.6	5.4	5.3
	149.12	6.2	5.8	5.7
	199.12	6.5	6	5.9
	249.12	7.2	6.4	6.1
F3	49.12	4.6	4	4
	99.12	5	4.5	4.5
	149.12	5.2	5	4.9
	199.12	5.6	5.4	5.3
	249.12	5.9	5.7	5.6

c. Data Pengujian hari ke-28

Formula	Beban (gram)	Replikasi		
		1	2	3
F1	49.12	5.4	4.3	4.5
	99.12	5.8	4.5	5
	149.12	6	4.9	5.8
	199.12	6.7	5	6
	249.12	6.8	5.1	6.2
F2	49.12	5.2	4.3	4.6
	99.12	6	4.8	5.3
	149.12	6.5	4.9	5.4
	199.12	6.8	5	6.2
	249.12	7.1	5.2	6.6
F3	49.12	4.7	4.6	4.4
	99.12	5.3	5	5
	149.12	5.7	5.4	5.7
	199.12	6.1	5.9	6
	249.12	6.5	6.3	6.3

d. Rata-rata Data Pengujian Formula

Formula	Beban (gram)	Diameter daya sebar (cm)		
		Hari ke-2	Hari ke-14	Hari ke-28
F1	49.12	5.3	4.8	4.8
	99.12	5.8	5.3	5.1
	149.12	6.4	5.7	5.6
	199.12	7.2	6	5.9
	249.12	7.9	6.6	6.1
F2	49.12	5.9	5	4.7
	99.12	6.8	5.5	5.4
	149.12	7.5	5.9	5.6
	199.12	8.4	6.2	6
	249.12	9.3	6.6	6.3
F3	49.12	6.4	5.2	4.6
	99.12	7.1	5.7	5.1
	149.12	8.1	6.1	5.6
	199.12	8.8	6.5	6
	249.12	9.6	6.8	6.4

LAMPIRAN 11. Hasil statistik uji viskositas

ONEWAY viskositas BY formula

/STATISTICS DESCRIPTIVES HOMOGENEITY

/MISSING ANALYSIS

/POSTHOC=TUKEY ALPHA(0.05).

NPar Tests – Viskositas**One-Sample Kolmogorov-Smirnov Test**

		viskositas
	N	9
Normal Parameters ^{a,b}	Mean	183.44
	Std. Deviation	35.588
	Most Extreme Differences Absolute	.182
	Positive	.182
	Negative	-.172
	Kolmogorov-Smirnov Z	.545
	Asymp. Sig. (2-tailed)	.928

a. Test distribution is Normal.

b. Calculated from data.

LAMPIRAN 12. Membandingkan masing-masing formula pada uji viskositas

Oneway**Test of Homogeneity of Variances**

Viskositas

Levene Statistic	df1	df2	Sig.
.594	2	6	.582

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	6962.889	2	3481.444	6.591	.031
Within Groups	3169.333	6	528.222		
Total	10132.222	8			

Post Hoc Tests**Multiple Comparisons**

viskositas

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-30.33333	18.76561	.310	-87.9114	27.2447
	3	-68.00000	18.76561	.026	-125.5780	-10.4220
2	1	30.33333	18.76561	.310	-27.2447	87.9114
	3	-37.66667	18.76561	.191	-95.2447	19.9114

3	1	68.00000	18.76561	.026	10.4220	125.5780
	2	37.66667	18.76561	.191	-19.9114	95.2447

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

Viskositas

Tukey HSD

formula	N	Subset for alpha = 0.05	
		1	2
1	3	150.6667	
2	3	181.0000	181.0000
3	3		218.6667
Sig.		.310	.191

Means for groups in homogeneous subsets are displayed.

LAMPIRAN 13. Pengolahan Data Stabilitas Krim Dengan Perlakuan Berbeda Pada Proses Penyimpanan Uji Viskositas

1. Formula 1

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji viskositas	6	170.00	38.601	130	210

One-Sample Kolmogorov-Smirnov Test

		uji viskositas
N		6
Normal Parameters ^{a,b}	Mean	170.00
	Std. Deviation	38.601
Most Extreme Differences	Absolute	.281
	Positive	.281
	Negative	-.281
Kolmogorov-Smirnov Z		.689
Asymp. Sig. (2-tailed)		.729

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji viskositas	6	170.00	38.601	15.759

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji viskositas	10.788	5	.000	170.000	129.49	210.51

2. Formula 2

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji viskositas	6	176.67	34.881	140	210

One-Sample Kolmogorov-Smirnov Test

		uji viskositas
N		6
Normal Parameters ^{a,b}	Mean	176.67
	Std. Deviation	34.881
Most Extreme Differences	Absolute	.292
	Positive	.278
	Negative	-.292
Kolmogorov-Smirnov Z		.714
Asymp. Sig. (2-tailed)		.687

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji viskositas	6	176.67	34.881	14.240

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji viskositas	12.406	5	.000	176.667	140.06	213.27

3. Formula 3

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji viskositas	6	207.50	39.592	170	250

One-Sample Kolmogorov-Smirnov Test

		uji viskositas
N		6
Normal Parameters ^{a,b}	Mean	207.50
	Std. Deviation	39.592
Most Extreme Differences	Absolute	.294
	Positive	.294
	Negative	-.256
Kolmogorov-Smirnov Z		.720
Asymp. Sig. (2-tailed)		.677

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji viskositas	6	207.50	39.592	16.163

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji viskositas	12.838	5	.000	207.500	165.95	249.05

LAMPIRAN 14. Hasil statistik uji daya lekat

NPar Tests – Daya Lekat**One-Sample Kolmogorov-Smirnov Test**

		dayalekat
	N	9
Normal Parameters ^{a, b}	Mean	7.57
	Std. Deviation	3.706
	Most Extreme Differences Absolute	.144
	Positive	.144
	Negative	-.134
	Kolmogorov-Smirnov Z	.433
	Asymp. Sig. (2-tailed)	.992

a. Test distribution is Normal.

b. Calculated from data.

LAMPIRAN 15. Membandingkan masing-masing formula pada uji daya lekat

ONEWAY dayalekat BY formula

/STATISTICS HOMOGENEITY

/MISSING ANALYSIS

/POSTHOC=DUKEY ALPHA(0.05).

Oneway

Test of Homogeneity of Variances

Daya lekat

Levene Statistic	df1	df2	Sig.
.407	2	6	.683

ANOVA

Daya lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	101.040	2	50.520	34.212	.001
Within Groups	8.860	6	1.477		
Total	109.900	8			

Post Hoc Tests

Multiple Comparisons

dayalekat

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

1	2	-4.40000 [*]	.99219	.010	-7.4443	-1.3557
	3	-8.20000 [*]	.99219	.000	-11.2443	-5.1557
2	1	4.40000 [*]	.99219	.010	1.3557	7.4443
	3	-3.80000 [*]	.99219	.020	-6.8443	-.7557
3	1	8.20000 [*]	.99219	.000	5.1557	11.2443
	2	3.80000 [*]	.99219	.020	.7557	6.8443

*. The mean difference is significant at the 0.05 level.

Homogeneous Subsets

dayalekat

Tukey HSD

formula	N	Subset for alpha = 0.05		
		1	2	3
1	3	3.3667		
2	3		7.7667	
3	3			11.5667
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

LAMPIRAN 16. Pengolahan Data Stabilitas Krim Dengan Perlakuan Berbeda Pada Proses Penyimpanan Uji Daya Lekat

1. Formula 1

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji daya lekat	6	3.3317	.92567	2.16	4.59

One-Sample Kolmogorov-Smirnov Test

		uji daya lekat
N		6
Normal Parameters ^{a,b}	Mean	3.3317
	Std. Deviation	.92567
Most Extreme Differences	Absolute	.140
	Positive	.140
	Negative	-.136
Kolmogorov-Smirnov Z		.343
Asymp. Sig. (2-tailed)		1.000

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya lekat	6	3.3317	.92567	.37790

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya lekat	8.816	5	.000	3.33167	2.3602	4.3031

2. Formula 2

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum
uji daya lekat	6	7.7550	1.38763	6.12

One-Sample Kolmogorov-Smirnov Test

		uji daya lekat
N		6
Normal Parameters ^{a,b}	Mean	7.7550
	Std. Deviation	1.38763
Most Extreme Differences	Absolute	.174
	Positive	.149
	Negative	-.174
Kolmogorov-Smirnov Z		.427
Asymp. Sig. (2-tailed)		.993

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya lekat	6	7.7550	1.38763	.56650

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya lekat	13.689	5	.000	7.75500	6.2988	9.2112

3. Formula 3

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji daya lekat	6	11.5000	.99158	10.10	12.90

One-Sample Kolmogorov-Smirnov Test

		uji daya lekat
N		6
Normal Parameters ^{a,b}	Mean	11.5000
	Std. Deviation	.99158
Most Extreme Differences	Absolute	.131
	Positive	.131
	Negative	-.131
Kolmogorov-Smirnov Z		.320
Asymp. Sig. (2-tailed)		1.000

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya lekat	6	11.5000	.99158	.40481

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya lekat	28.408	5	.000	11.50000	10.4594	12.5406

LAMPIRAN 17. Hasil statistik uji daya sebar

NPar Tests – Daya Sebar**One-Sample Kolmogorov-Smirnov Test**

		dayasebar
	N	9
Normal Parameters ^{a, b}	Mean	6.26
	Std. Deviation	.930
	Most Extreme Differences Absolute	.251
	Positive	.251
	Negative	-.208
	Kolmogorov-Smirnov Z	.753
	Asymp. Sig. (2-tailed)	.623

a. Test distribution is Normal.

b. Calculated from data.

LAMPIRAN 18. Membandingkan masing-masing formula pada uji daya sebar

ONEWAY dayasebar BY formu

/STATISTICS HOMOGENEITY

/MISSING ANALYSIS

/POSTHOC=TUKEY ALPHA(0.05).

Oneway

[DataSet0]

Test of Homogeneity of Variances

dayasebar

Levene Statistic	df1	df2	Sig.
1.789	2	6	.246

ANOVA

dayasebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.632	2	.316	.301	.750
Within Groups	6.290	6	1.048		
Total	6.922	8			

Post Hoc Tests

Multiple Comparisons

dayasebar

Tukey HSD

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-.44000	.83599	.862	-3.0050	2.1250
	3	-.63333	.83599	.741	-3.1984	1.9317
2	1	.44000	.83599	.862	-2.1250	3.0050
	3	-.19333	.83599	.971	-2.7584	2.3717
3	1	.63333	.83599	.741	-1.9317	3.1984
	2	.19333	.83599	.971	-2.3717	2.7584

Homogeneous Subsets

dayasebar

Tukey HSD

formula	N	Subset for alpha = 0.05
		1
1	3	5.9000
2	3	6.3400
3	3	6.5333
Sig.		.741

dayasebar

Tukey HSD

formula	N	Subset for alpha = 0.05
		1
1	3	5.9000
2	3	6.3400
3	3	6.5333
Sig.		.741

Means for groups in homogeneous subsets are displayed.

LAMPIRAN 19. Pengolahan Data Stabilitas Krim Dengan Perlakuan Berbeda Pada Proses Penyimpanan Uji Daya Sebar

1. Formula 1

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji daya sebar	10	6.0100	.95272	4.80	7.90

One-Sample Kolmogorov-Smirnov Test

		uji daya sebar
N		10
Normal Parameters ^{a,b}	Mean	6.0100
	Std. Deviation	.95272
Most Extreme Differences	Absolute	.162
	Positive	.162
	Negative	-.102
Kolmogorov-Smirnov Z		.513
Asymp. Sig. (2-tailed)		.955

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya sebar	10	6.0100	.95272	.30128

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya sebar	19.949	9	.000	6.01000	5.3285	6.6915

2. Formula 2

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji daya sebar	10	6.5900	1.42864	4.70	9.30

One-Sample Kolmogorov-Smirnov Test

		uji daya sebar
N		10
Normal Parameters ^{a,b}	Mean	6.5900
	Std. Deviation	1.42864
Most Extreme Differences	Absolute	.180
	Positive	.180
	Negative	-.102
Kolmogorov-Smirnov Z		.571
Asymp. Sig. (2-tailed)		.901

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya sebar	10	6.5900	1.42864	.45177

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya sebar	14.587	9	.000	6.59000	5.5680	7.6120

3. Formula 3

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
uji daya sebar	10	6.7700	1.62416	4.60	9.60

One-Sample Kolmogorov-Smirnov Test

		uji daya sebar
N		10
Normal Parameters ^{a,b}	Mean	6.7700
	Std. Deviation	1.62416
Most Extreme Differences	Absolute	.190
	Positive	.190
	Negative	-.094
Kolmogorov-Smirnov Z		.601
Asymp. Sig. (2-tailed)		.863

a. Test distribution is Normal.

b. Calculated from data.

One-Sample Statistics

	N	Mean	Std. Deviation	Std. Error Mean
uji daya sebar	10	6.7700	1.62416	.51360

One-Sample Test

	Test Value = 0					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
uji daya sebar	13.181	9	.000	6.77000	5.6081	7.9319