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بنفس (swasta).

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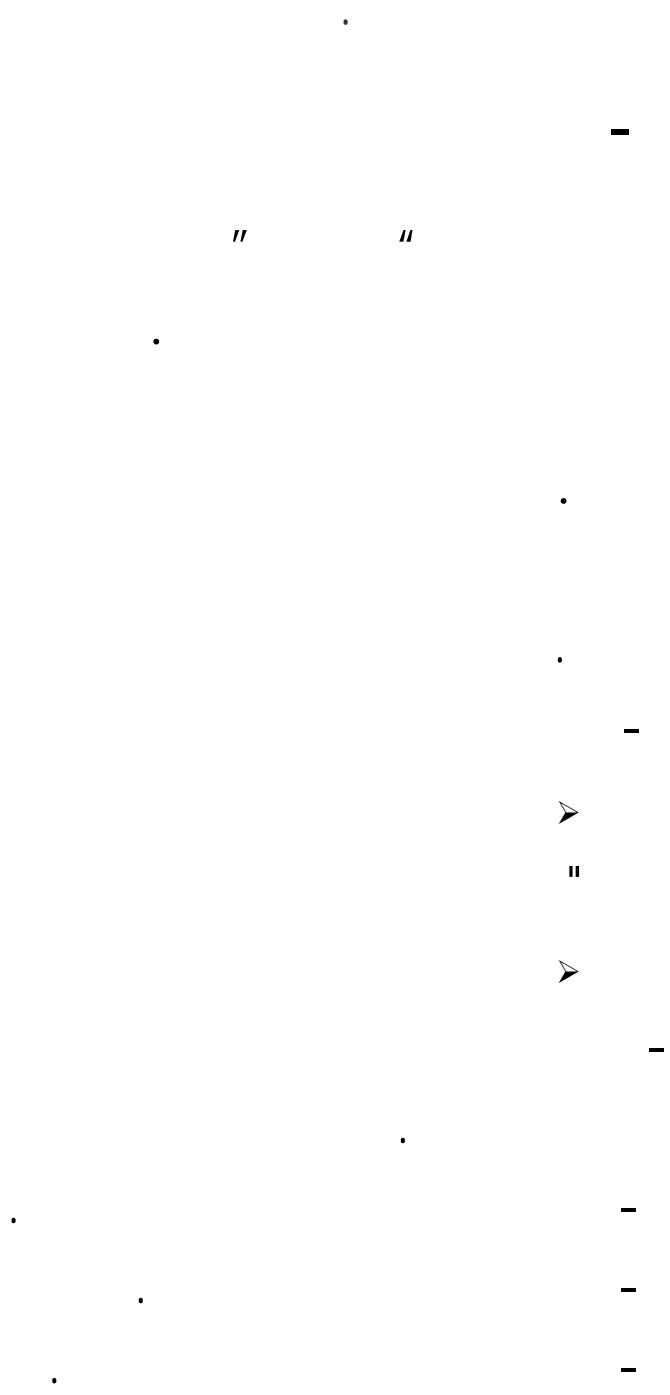
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		S.E, M.M,	1
		S.TH.I ,	2
		M.Pd.I	3

			4
		S.Pd.I,	5
			6
		S.Pd.I,	7
		S.E, S.Pd,	8
			9
		S.Pd,	10
			11
			12
			13
		S.Sos,	14
PPKN		S.Hi,	15
		S.H,	16
		S.Pd,	17
			18
		S.Hi,	19
		S.Pd,	20
		S.Pd.I,	21
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33	16	17	10	1
31	14	17	11	2
29	17	12	12	3

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	3		1
	1		2

	1		3
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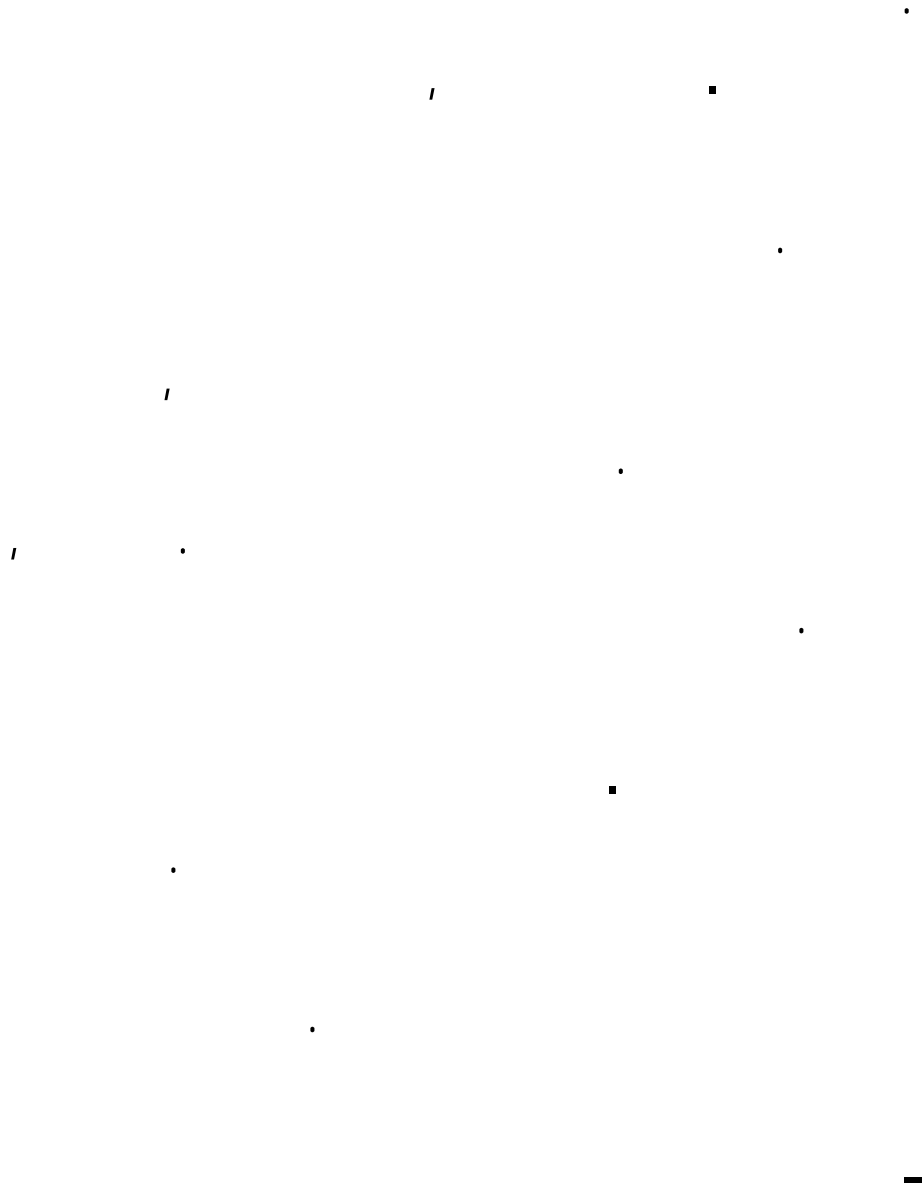
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$$P = \frac{F(\quad)}{N(\quad)} \times 100\%$$

(N)

31

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	10	9	8	7	6	5	4	3	2	1		
26	3	3	3	3	3	1	2	2	3	3		1
25	3	3	2	3	3	1	2	2	3	3		2
24	3	3	2	3	3	1	2	2	2	3		3
26	3	3	2	3	3	1	2	3	2	4		4

25	3	3	2	3	3	1	2	1	3	4		5
30	3	3	3	4	4	1	2	3	3	4		6
30	3	3	3	3	3	2	2	3	4	4		7
29	3	3	4	3	3	2	2	2	3	4		8
28	3	3	3	3	3	2	2	2	3	4		9
29	4	4	2	3	4	1	2	2	3	4		10
28	3	4	3	4	4	1	1	2	3	3		11
30	4	4	2	3	3	1	2	3	4	4		12
29	4	4	3	3	3	1	2	3	3	3		13
27	3	3	2	3	3	1	2	3	3	4		14
28	3	3	3	2	3	2	2	3	3	4		15
29	3	4	2	3	3	2	3	2	3	4		16
27	3	3	3	2	3	1	2	2	4	4		17
28	3	3	2	3	4	1	3	1	4	4		18
32	3	3	4	3	4	1	3	3	4	4		19

30	3	3	3	3	4	1	3	3	3	4		20
27	3	3	2	3	4	1	2	3	3	3		21
26	4	3	3	3	3	1	2	3	1	3		22
29	3	4	3	3	3	1	2	3	4	3		23
29	3	4	3	3	3	1	3	2	3	4		24
28	3	3	2	3	3	2	3	2	3	4		25
29	3	3	2	4	3	1	3	3	3	4		26
29	3	3	3	4	3	1	3	3	2	4		27
31	3	3	3	4	4	1	2	3	4	4		28
28	3	3	3	4	3	1	2	3	3	3		29
31	4	4	3	4	4	1	2	3	3	3		30
31	4	4	3	4	3	1	3	2	3	4		31

: , (Prosentase)

(5)

%	N	F		
71,5		21		1
28,5		10		
-		-		
-		-		
100	31	31		

(6)

%	N	F		
28,5		10		2
63,6		15		
11,9		6		
-		-		
100	31	31		

(7)

%	N	F		
-		-		3
48,5		17		
45,7		16		
5,7		2		
100	35	35		

(8)

%	N	F		
-		-		4
31,4		9		
62,8		16		
5,7		6		
100	31	31		

(9)

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%	N	F		
-		-		5
-		-		
22,8		8		
62,9		23		
100	31	31		

(10)

%	N	F		
25,7		9		6
74,3		22		
-		-		
-		-		
100	31	31		

(12)

%	N	F		
5,7		2		8
54,2		19		
40		14		
-		-		

100	35	35		
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(14)

%	N	F		
34,2		12		9
65,7		23		
-		-		
-		-		
100	35	35		

(15)

%	N	F		
28,5		10		10

71,4		25		
-		-		
-		-		
100	35	35		

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(16)

		28,5	71,4	1
-	11,4	63,6	28,5	2
5,7	45,7	48,5	-	3
5,7	62,8	31,4	-	4
62,9	22,8	-	-	5

-	-	74,2	25,7	6
-	-	60	40	7
-	40	54,2	5,7	8
-	-	65,7	34,2	9
-	-	71,4	28,5	10
74,3	182,7	495,5	236,8	
24,7	36,54	55	33,8	(mean)

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.(Post Test)

(Pre Test)

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(17)

6	4	عبد الوحيد	1
7	5		2
6	4		3
5	4		4

6	5		5
7	6		6
7	5		7
6	4		8
6	5	محمد خير الأبرار	9
7	6		10
5	5		11
6	4		12
7	5		13
6	4		14
8	6		15
6	5		16
7	4		17
6	5		18
7	4		19
8	5		20
5	4		21
5	4		22
5	4		23

6	5		24
4	3		25
6	4		26
7	4		27
8	5		28
7	4		29
7	4		30
7	4		31

(Paired “t” test)

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$$t = (\bar{X} - \bar{Y}) \sqrt{\frac{n(n-1)}{\sum_{i=1}^n (\hat{X}_i - \hat{Y}_i)^2}}$$

: ,SPSS

.“data view”

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The screenshot shows the SPSS Statistics Data Editor window. The data is organized into two columns: 'sebelum' and 'sesudah'. The rows are numbered 1 through 23. The values for 'sebelum' range from 5 to 7, and the values for 'sesudah' range from 6 to 9. The cell at row 1, column 'sesudah' is highlighted in yellow.

	sebelum	sesudah
1	7	9
2	6	7
3	6	8
4	6	8
5	6	6
6	6	6
7	7	8
8	7	8
9	7	8
10	6	6
11	6	6
12	5	7
13	7	7
14	5	7
15	6	7
16	6	8
17	7	8
18	6	8
19	5	7
20	6	8
21	6	8
22	6	8
23	6	8

(1)

“Data View”

Analyze – Compare Means – Paired Samples T test .2

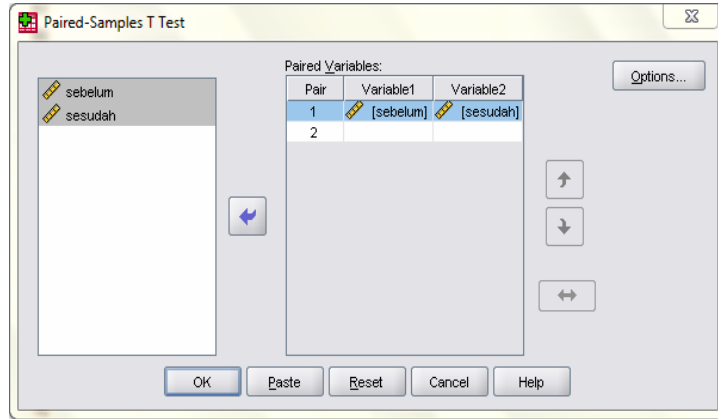
The screenshot shows the SPSS Statistics Data Editor window with the 'Analyze' menu open. The path 'Analyze > Compare Means > Paired-Samples T Test...' is selected. The data table is visible in the background, showing the same two columns: 'sebelum' and 'sesudah'.

	sebelum	sesudah
1	60.00	
2	60.00	
3	68.00	
4	72.00	
5	65.00	
6	70.00	
7	54.00	
8	54.00	
9	47.00	
10	60.00	
11	70.00	
12	60.00	
13	62.00	
14	60.00	
15	45.00	

“Paired Samples T test” (2)

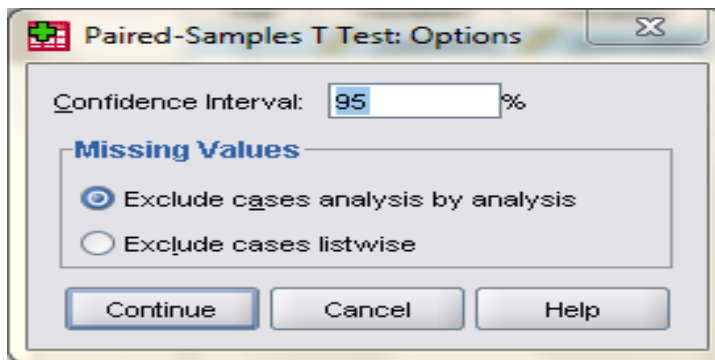
Paired , Paired-T test () .3

OK - continue, Variables



(3)

“Paired Variable”



(4)

“Paired Sample T test: Option “

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Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	sebelum	6.10	31	651	116
	sesudah	7.48	31	851	157

(19)

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	sebelum & sesudah	31	.274	136

(20)

Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	sebelum - sesudah	- 1.387	.919	.165	-1.724	-1.050	-8.401	30	.000

∴ SPSS

∴ (Ho)

❖

∴ (Ha)

❖

∴ Paired Samples Statistics

❖

6.10 =

-

7.48 =

-

0.651 =

-

0.851 =

-

0.116 =

Standart Error -

0.157 =

Standart Error -

Paired Samples Correlations

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. (0,462)

		Paired Samples Test	❖
		8.401 = (T test) t	-
		2,021 = t table	-
		0,000 = Sig. (2-tailed)	-
t table	(T test) t		
	(Ho)	, (8.401 > 2,021)	
	Sig. (2-tailed)	. (Ha)	
	(Ho)	, (0,00 < 0,05) 0,05	
		. (Ha)	
		:	❖

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