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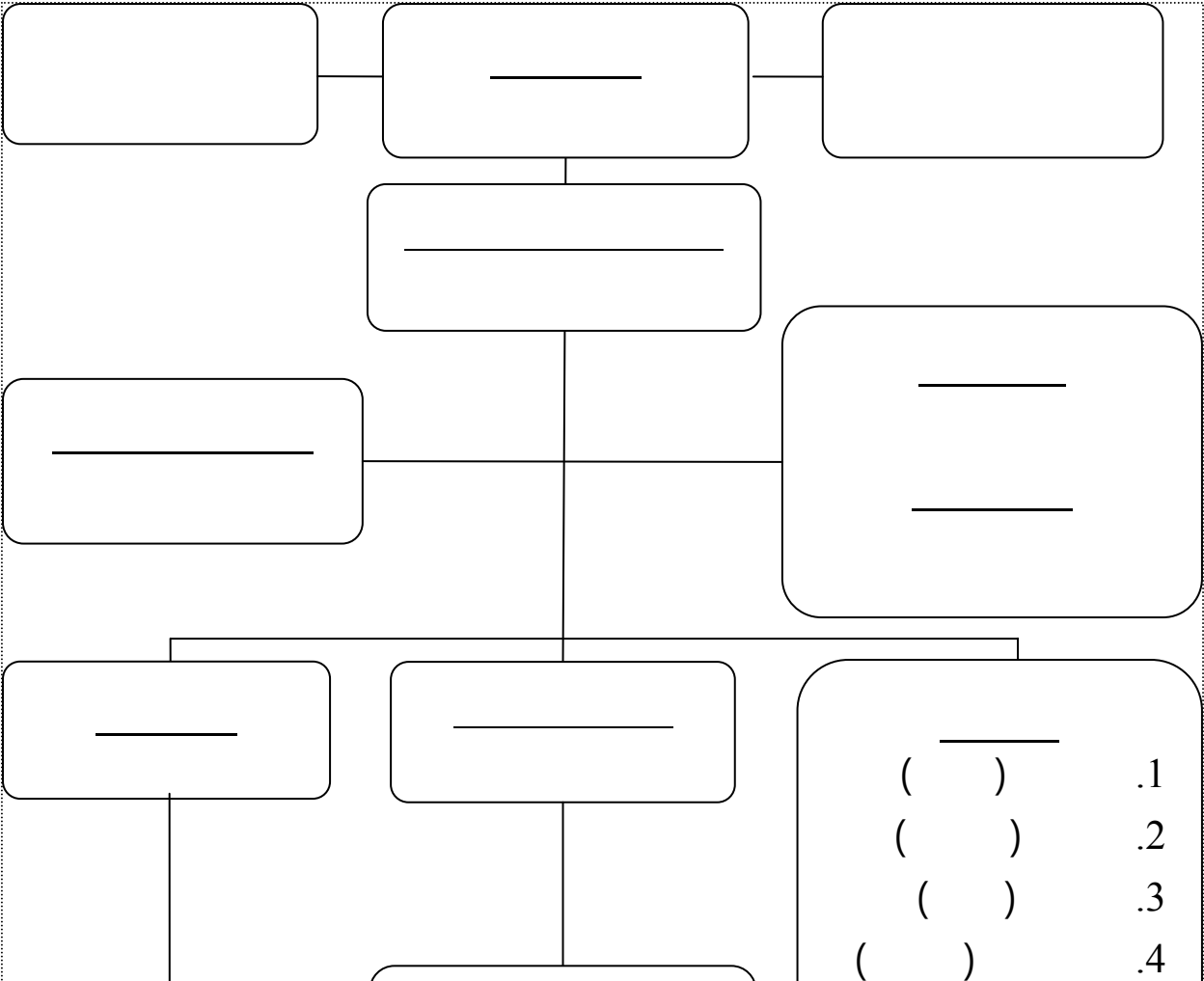
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1	-	14	8	22
2	-	10	10	20
3	—	18	11	29
4	—	12	21	33
5	—	16	15	31
6	—	17	17	34

		87	82	169
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1		1	
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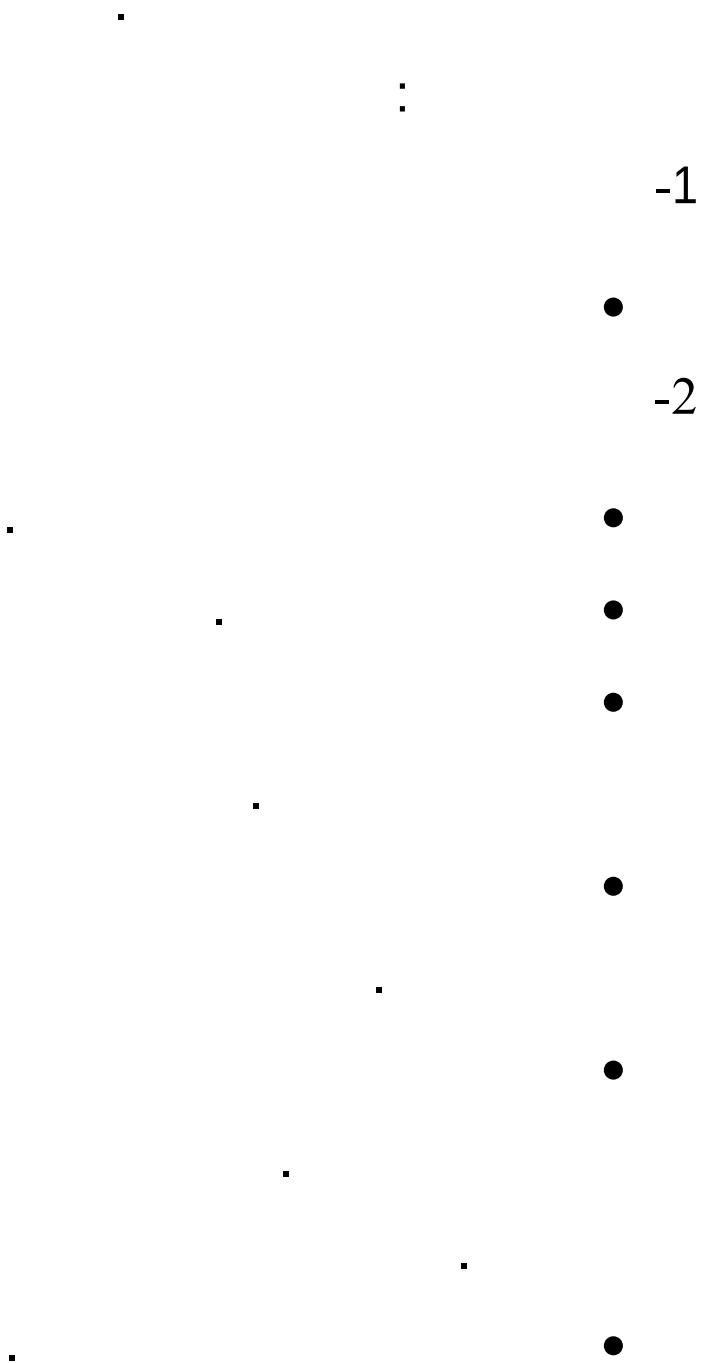
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(N) ▪(Purposive Sampling)

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		1	2	3	4	5	6	7	8	9	10	
1		3	4	2	3	4	4	3	4	3	4	34
2		4	4	3	3	4	4	4	4	3	4	37
3		4	3	4	3	4	4	3	4	4	4	37
4		4	4	3	4	4	4	3	4	3	4	37
5		3	4	2	3	3	4	4	4	4	3	34
6		4	4	4	3	4	4	4	4	4	4	39
7		4	3	3	3	4	3	4	4	4	4	36
8		4	4	4	4	4	4	4	4	3	4	39
9		2	4	2	3	3	3	3	4	4	3	31

10		3	3	4	4	4	4	4	3	3	4	36
11		4	3	3	4	4	4	4	4	3	4	37
12		3	3	4	3	4	4	3	3	4	3	34
13		3	4	3	3	4	3	4	3	4	4	35
14		4	4	4	3	4	4	4	3	3	4	37
15		3	4	2	4	3	4	3	4	3	3	33
16		2	4	3	3	4	3	3	4	4	3	33
17		4	3	4	4	4	4	4	3	4	4	38
18		4	4	4	3	4	4	4	4	4	4	39
19		3	4	3	3	4	4	3	3	4	4	35
20		4	4	3	4	4	4	3	4	4	3	37
21		3	3	3	3	4	4	4	4	2	4	34

22		4	3	4	4	4	4	4	4	4	4	39
23		3	3	3	4	4	4	3	4	4	4	36
24		2	4	3	4	4	4	4	4	2	4	35
25		3	4	3	3	4	4	3	4	3	4	35
26		4	4	4	4	4	4	4	4	4	4	40
27		4	3	3	3	4	4	3	4	3	4	35
28		3	4	3	4	4	4	3	4	4	3	36
29		4	4	4	4	4	4	4	3	3	4	38
30		4	3	3	3	4	4	3	4	3	4	35
31		3	3	4	3	4	4	3	4	2	3	33
32		2	4	2	3	4	4	4	4	3	4	34
33		3	4	2	4	3	3	3	3	2	3	30

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$$p = \frac{F}{N} \times 100\%$$

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(5)

		F	N	%
1		16		48,5
		13		39,4
		4		12,1
		-		-
		33	33	100

(6)

		F	N	%
2		21		63,6

		12		36,4
		-		-
		-		-
		33	33	100

(7)

		F	N	%
3		12		36,4
		15		45,4
		6		18,2
		-		-
		33	33	100

(8)

		F	N	%
4		19		57,6
		14		42,4

		-		-
		-		-
		33	33	100

(9)

		F	N	%
5		29		87,9
		4		12,1
		-		-
		-		-
		33	33	100

(10)

		F	N	%
6		28		84,8

		5		15,2
		-		-
		-		-
		33	33	100

(11)

		F	N	%
7		17		51,5
		16		48,5
		-		-
		-		-
		33	33	100

(12)

		F	N	%
8		25		75,7

		8		24,3
		-		-
		-		-
		33	33	100

(13)

		F	N	%
9		20		60,6
		13		39,4
		-		-
		-		-
		33	33	100

(14)

		F	N	%
10		24		72,7
		9		27,3

		-		-
		-		-
		33	33	100

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(15)

1	48,5	39,4	12,1	-
2	63,6	36,4	-	-
3	36,4	45,4	18,2	-
4	57,6	42,4	-	-
5	87,9	12,1	-	-
6	84,8	15,2	-	-
7	51,5	48,5	-	-
8	75,7	24,3	-	-
9	60,9	39,4	-	-
10	72,7	27,3	-	-

	639,6	328,6	30,3	-
(mean)	63,96	32,86	3,03	-

63,96

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.(Post Test)

(Pre Test)

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(16)

1		76	82
2		70	88

3		88	90
4		70	80
5		70	85
6		90	90
7		82	86
8		80	94
9		76	80
10		86	95
11		90	95
12		90	98
13		80	80
14		80	86
15		75	76
16		70	75
17		80	85
18		86	90

19		70	70
20		70	80
21		68	70
22		70	82
23		75	86
24		70	80
25		65	75
26		80	88
27		90	96
28		90	95
29		80	82
30		70	85
31		75	82
32		65	70
33		65	75

(Paired “t” test)

:

$$t = \frac{\bar{X}_1 - \bar{X}_2}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2} - 2r\left(\frac{S_1}{\sqrt{n_1}}\right)\left(\frac{S_2}{\sqrt{n_2}}\right)}}$$

	:		
$\bar{X}_1$	$\bar{X}_1$	=	
$\bar{X}_2$	$\bar{X}_2$	=	
S_1^2	S_1^2	=	
		=	
S_2^2	S_2^2	=	
		=	
n_1	n_1	=	
		=	
n_2	n_2	=	
		=	
r	r	=	
		=	
S_1	S_1	=	
		=	
S_2			

: SPSS 20

33 : sesudah 75 Visible: 2 of 2 Variables

	sebelum	sesudah	var	var	var	var	var	var	var	var	var	var
18	86	90										
19	70	70										
20	70	80										
21	68	70										
22	70	82										
23	75	86										
24	70	80										
25	65	75										
26	80	88										
27	90	96										
28	90	95										
29	80	82										
30	70	85										
31	75	82										
32	65	70										
33	65	75										
34												

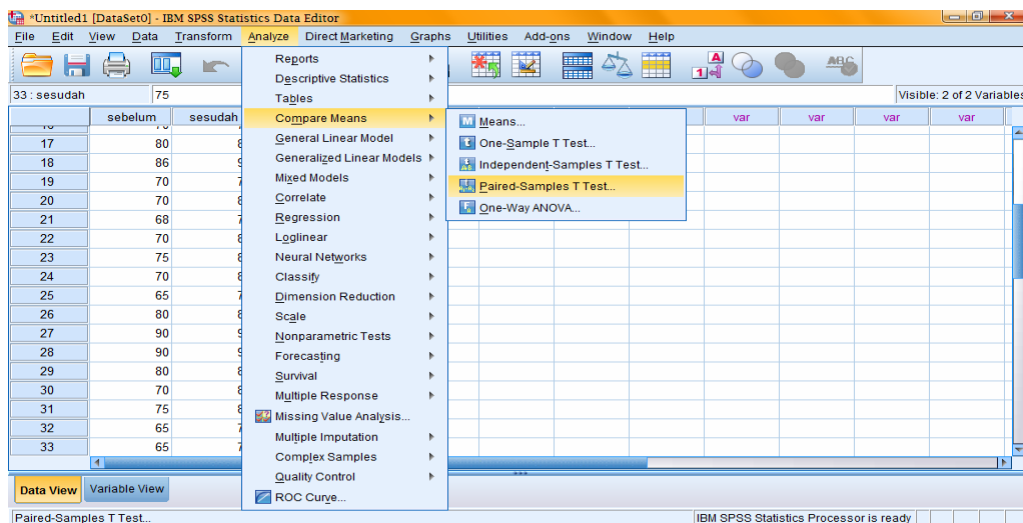
Data View Variable View IBM SPSS Statistics Processor is ready

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“Data View”

Analyze – Compare Means – Paired Samples T test

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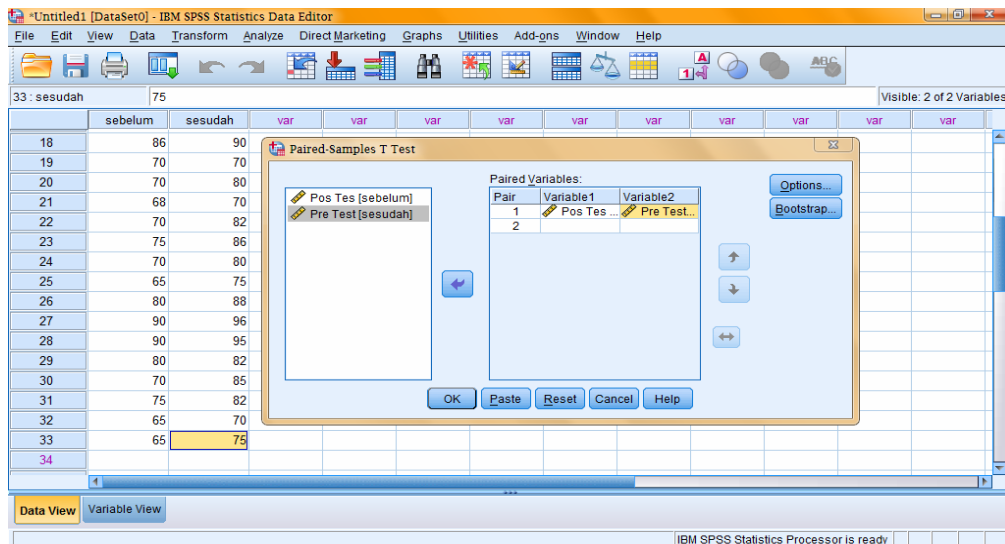


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“Paired Samples T test “

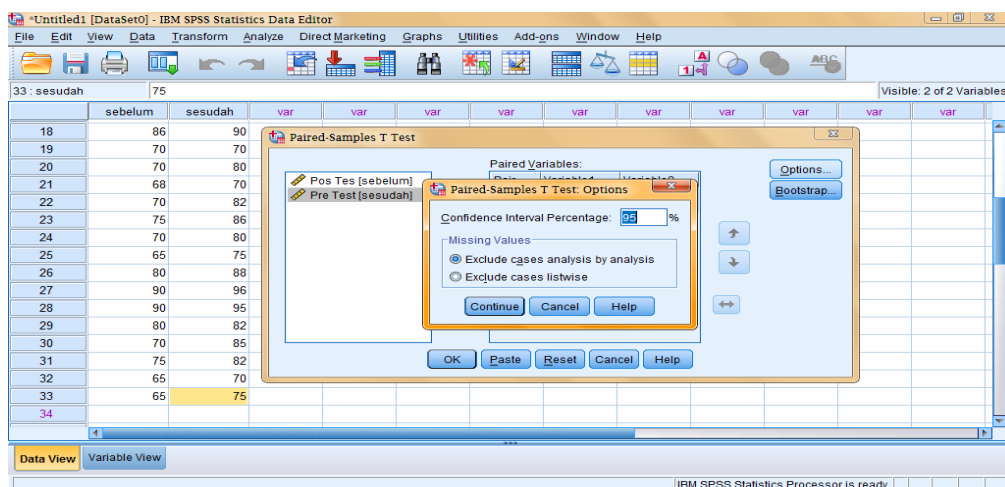
, Paired-T test () -3

OK - continue, Variables Paired



(3)

“Paired Variable”



(4)

“Paired Sample T test: Option “

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(17)

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	pre test	77.03	33	8.244	1.435
	post test	83.97	33	7.804	1.359

(18)

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	pre test & post test	33	.832	.000

(19)

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 pre test - post test	-6.939	4.670	.813	-8.595	-5.283	8.536	32	.000

∴ SPSS

∴ (Ho)

●

" " ()

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∴ (Ha)

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∴ Paired Samples Statistics

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77.0303 =

-

83.9697 =

-

8.24426 =

-

7.80418 =

-

1.43514 =

Standart Error -

1.35853 =

Standart Error -

Paired Samples Correlations

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▪ (0,832)

.		" "	()	
		Paired Samples Test		●
8.536 =		(T test) t	-	
2,042 =		t table	-	
0,000 =		Sig. (2-tailed)	-	
t table		(T test) t		
	(Ho)		, (8.536 > 2,042)	
0,05	Sig. (2-tailed)	.	(Ha)	
	(Ho)		, (0,00 < 0,05)	
		.	(Ha)	
		:		●
" "		()		
		.		