the sum of ranks assigned to acción to the signs assigning rank one to the simplies differences in magnificate in absolute valve rank two to the second singlest differences in magnificate absolute valve and rank in to the largest difference in sighed rank test is less was ful into account the manifold of the difference. In this test we rank the difference without regard in this test we rank rank one to the simplist proposition; absolute value. The Signed FRONK test is based on It the T - and T tak symmetric about Assignment: Find out how. that one the mean of the ranks, which they fourthy Information. As we have there II min (I+ I-Zero differentes are two of her rank test is less unstepl in that it takes account the magnificating the difference. (atomed 0 note that and but since we differences between cribbel takes legions for various tests is given Sample case, it tends to be wasteful of tames assigned to signed-law test terenses are ignored. If the aboute value the influences are the same we assign seen the sign Tto Tto of signs of signs of means and the observations Mo 「ナン the Willwam sighed-rank test takes the valves ーグを the ん(れ十1)/4・ difference frem a 0 3

Alternative m >mo M/ Mo 中的。 chibrel Kegn -He Jabon

Vasins 18.5 4.46 12.46 Survelly of a Cerbain 95:3 93:27 メア 45.49 15 Kind of gardine 26:0 79,1,96,1 measurements 8.96 100.3 98.2 4.46 五 octane

Significante to defermine in unit of governine is 98.5. had the Signed-rank test at x=0:05 level of

3.45

populate valve of wish to test I Value and Utame the next page 5.86 asson te Subrad different Miny 5.86 ± W

Min LT 2 七十 10 m/ (10,95) combine in hext to mys TRING tve different

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94.9	7.80	9,46	~ ~	1,66	93.2	35.3	から	/db/3	8.96	260	67.5	95.2	らたら	Megsuemats
3.6	0000	10.0	ーン・ヤ	60.b	15:3	-3.2	1 -	<u>(8)</u>	ナ)」	12:5	-12	-3.3	1	え: ール
13 Colorana 1000		W	2	2 + difference				3 t different	J	10	6	12	4	Yank.

Nortes Siringent Zen Difference RAWK absolute value Starting the

からな 20.05 we kjest 20 to. laxan - sign rank test an bile

atternative hypothesis. disgard one valve (200 diff

LEVILLS John L. assime 2 Var(Tt)= The mean Atternative Supothers the padh want to test to: Sighel - Rank test for If the sample of from the ontasting it table below. n > 15 it is considered teason.

The distribution of It is appoint the sign-trailed
on this dissumption we need # Ne y be the mean of Mr the observations りにより パイメナンが 7 スナム considered reasonable and variante of 力な (22十一 コナ ハ ーシャ My ~ Mz. We Refer to it orived data かー・21=1 10 7 一十 のみ the ranks

Nemaly 1 121 4.42 £1.27 + 2.28 1年(スリナスを「こりナ・ナスだる」 Bernonhi 1+2+ + (1) 1.7 + 2,72 + 3.73 + and 22 ak 7 E(Zi) 2 4.8 ・・よろ distribution who ガナー ナイス in dependent random ナ・・ナン・スか 11 11 7 .. + n. 42 ロスナ て(マナニ ・・ナス・ひゃ n(n+1 Vaniables n-2127 rina

1ながま Var(T 7 +22+ ·· +n 11 スナス 1 2 11 ナめナ Var 1-2, + 2.2 224 +2-1/4 + ·· + n · 3/4 - Var(Z) + 2 Var(Z) () 1 + t スナフ ナコ ナ・・ナ るたけ + 12 VAT と、人と

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of the 16 p Liet Neeks Cerbain weignd and

9

7.80%	ナナカー	刘公平	0,441	206.3	らたり	9.191	2321	183.5	०, रम।	before	>
4.561	145.0	203.2	180.6	20.4	[93.5	[63.8]	\$1 249.0	8.8.KI	7,481	After	
				ナンアー	8.551	157,2	1503	[3].9	1668	Before	
				2-841	159-1	17981	149.3	130. h	5.851	Affer	

ba and Use the rame tes effective. Whether to test 2 Weight & =0, ds Hoduchy

When 21 Solution X Fre 10.05

Expensive

22

はよろろからなるのではいいからし Ranks abrant 200 Valves -ニャのラスのモナラのいるのですが

Alternatively: Reject that Holy The reject Ha 2x = 20.05 = 1.645 7- - 25 (5+7+3+6+4) < To:30 = 35 thus rejust to.