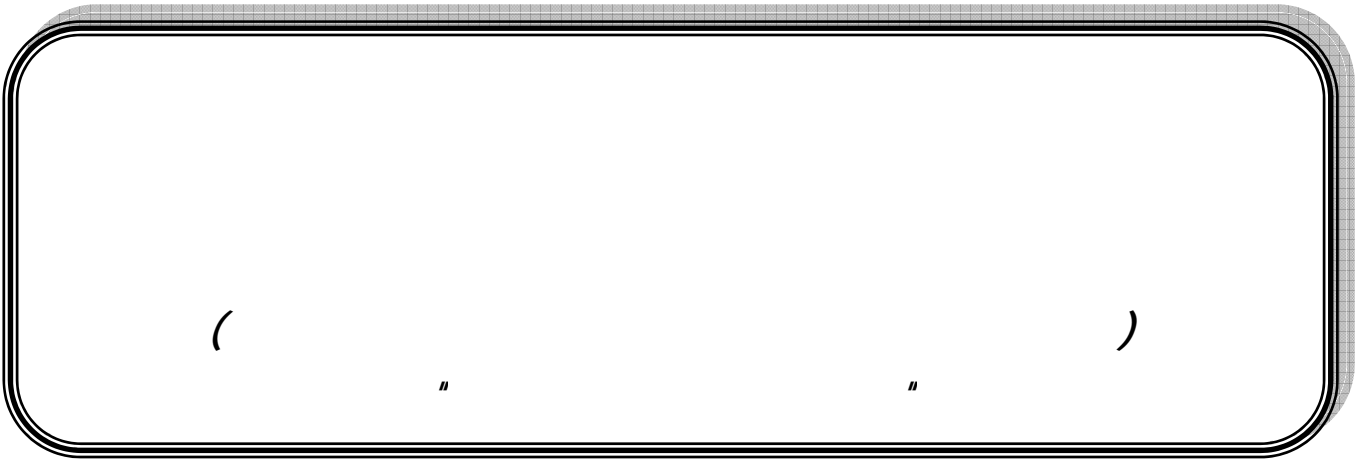


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## The Research Summary

This research is about exam anxiety and handwriting characteristics. The research aims at discovering some of the handwriting characteristics among 110 pupils (male and female) of 3<sup>rd</sup> secondary classes in Biskra city, suffering hyper exam anxiety, chosen from 416 pupils High grades on the scale disturbance test anxiety ; they are aged from 17 – 20 years .

The research hypotheses are:

- The handwriting inclination of pupils suffering hyper exam anxiety that declines to the opposite side of hand writing (hand writing declines to the right in place to the left) .
- The handwriting form of pupils suffering hyper exam anxiety takes the form of a triangle .
- The handwriting size of pupils suffering hyper exam anxiety is smaller than average .
- The handwriting distance between words of pupils suffering hyper exam anxiety is too small.
- The handwriting distance between lines of pupils suffering hyper exam anxiety is too small .
- The handwriting pressure On paper sheet of pupils suffering hyper exam anxiety is too high .
- There are no statistically significant differences in some handwriting characteristics among males and females suffering of hyper exam anxiety (pressure on paper sheet, distance between words and lines, the form of handwriting, the size, and the inclination of handwriting).

In order to validate these hypotheses, we have used two tools: anxiety components test and, Handwriting analysis test.

The research results are as follow:

- The handwriting inclination of pupils suffering hyper exam anxiety was on the side of handwriting (mostly to the left and not to the right) .
- The handwriting form of pupils suffering hyper exam anxiety was triangles and circles, so they are equal in this matter .
- The handwriting size of pupils suffering hyper exam anxiety was too small among this zones (higher, middle and lower) .



- The handwriting distance between words of pupils suffering hyper exam anxiety differed from small to middle .
- The handwriting distance between lines of pupils suffering hyper exam anxiety differed from middle to large .
- The handwriting pressure on paper sheet of pupils suffering hyper exam anxiety was too high .
- There were not statistically significant differences in some handwriting characteristics among both sexes suffering hyper exam anxiety (pressure on paper sheet, distance between words and lines, the handwriting form and size) .
- There were statistically significant differences at 0.01 level in some handwriting characteristics among both sexes suffering hyper test anxiety in hand writing inclination.

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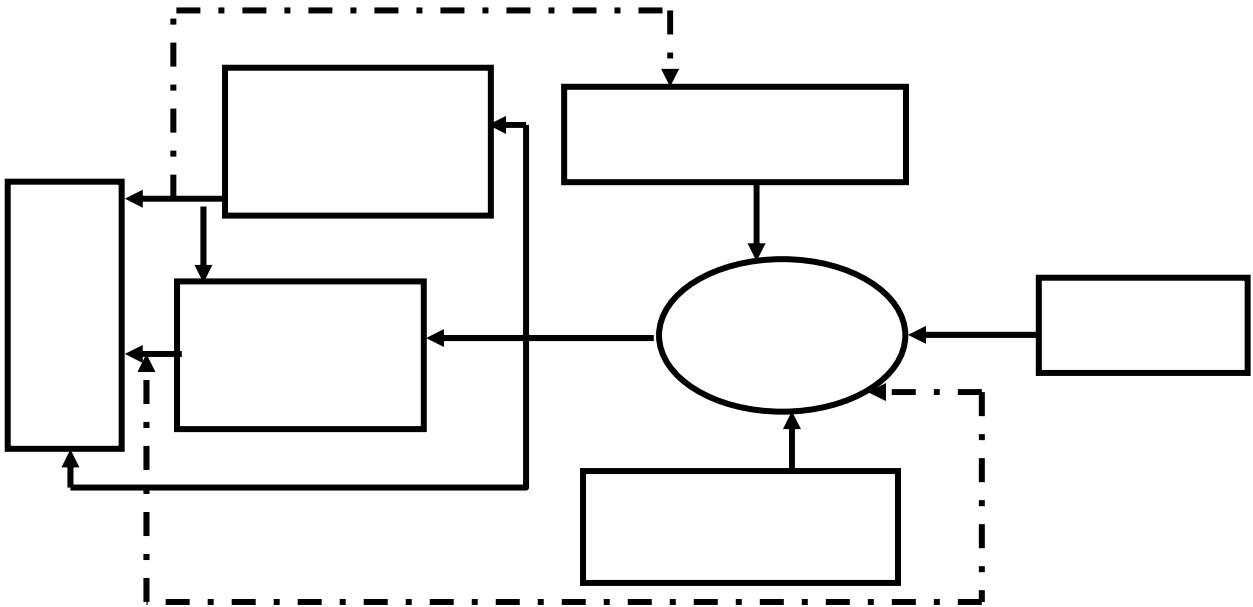
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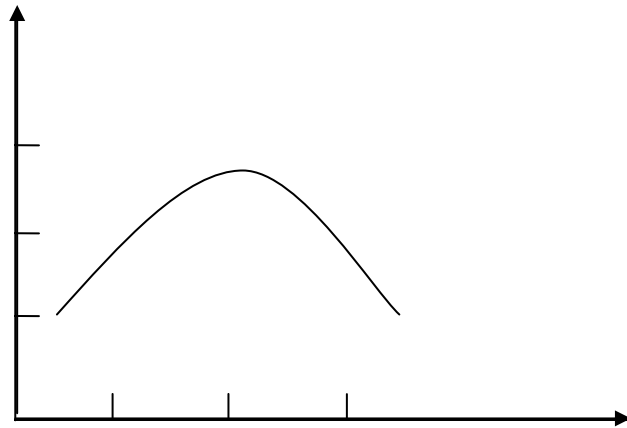
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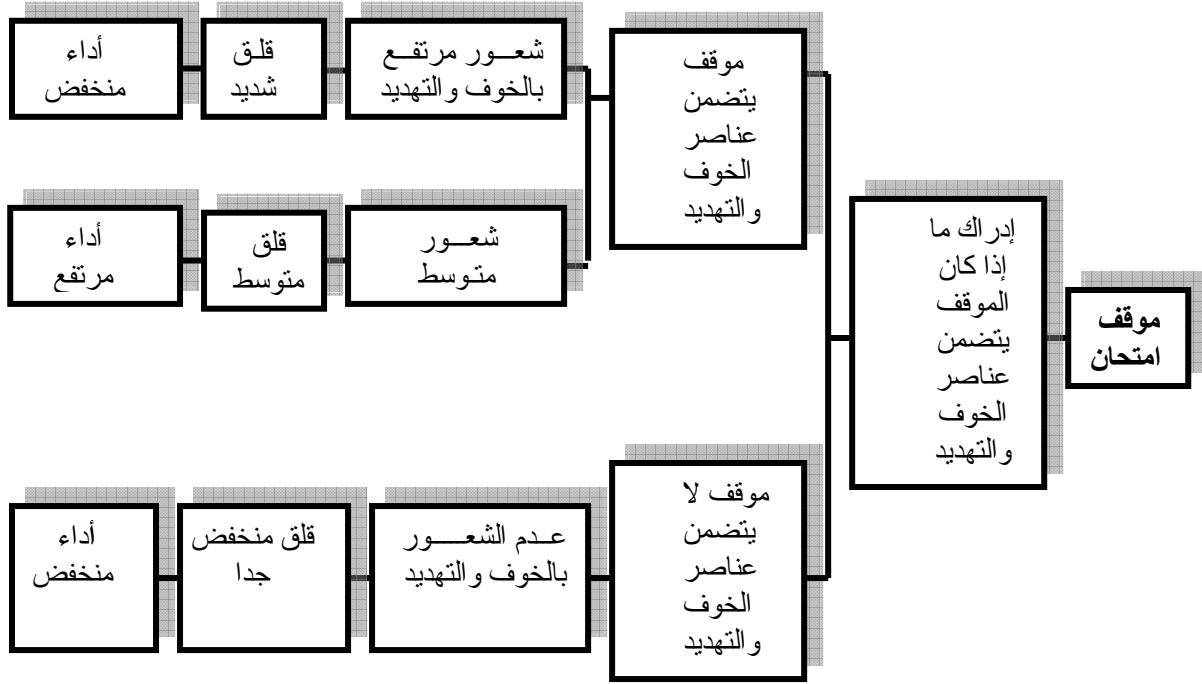
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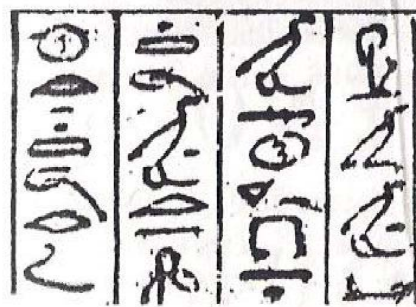
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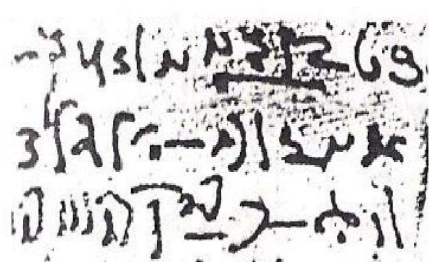
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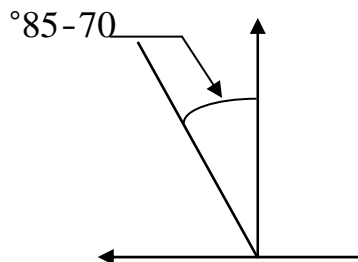
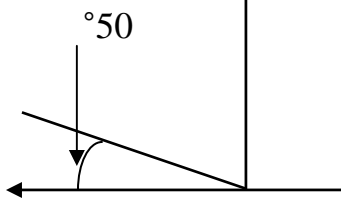
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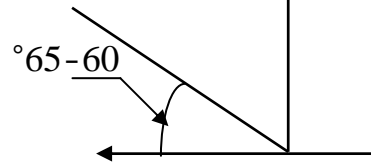
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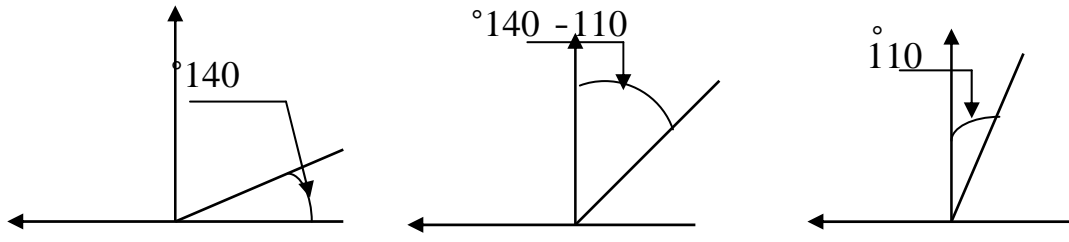


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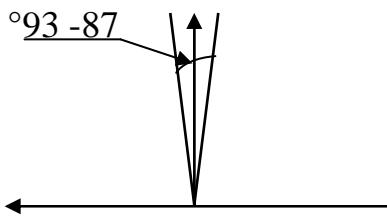




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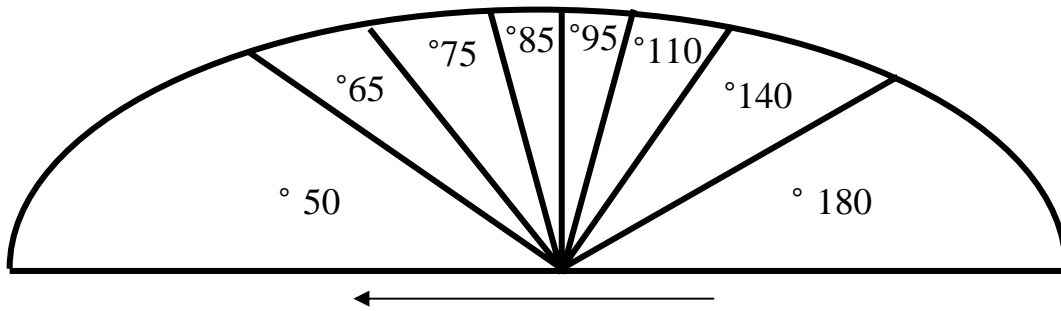


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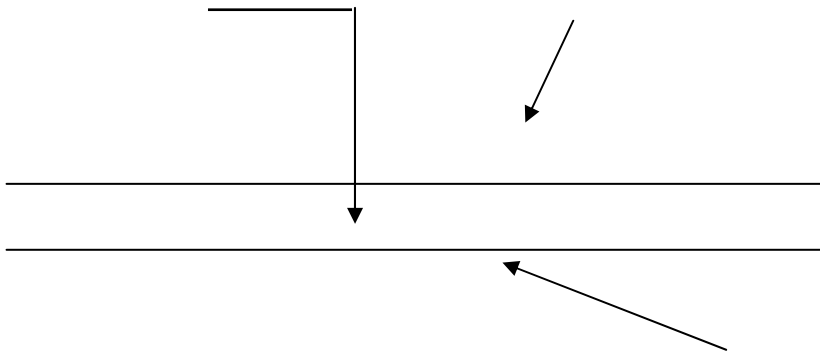
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<p>- - - - - 1-1</p> <p>-</p> <p>- - - - - 2-1</p> <p>- - - - - 3-1</p> <p>- - - - - 4-1</p> <p>- - - - - 2</p> <p>- - - - - 3</p>	<p><b>:(*5)</b></p> <p>: - 1</p> <p>- 1-1</p> <p>) - 2-1</p> <p>(</p> <p>) - 3-1</p> <p>(</p> <p>- 4-1</p> <p>) - 2</p> <p>(</p> <p>- 3</p>
<p>- - - - - 1</p> <p>-</p>	<p><b>:(*6)</b></p> <p>- 1</p>

-	- 2	- 2
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-	- 5	- 5
-	- 6	- 6
		<b>:(*7)</b>
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-	- 5	- 5
		<b>:(*8)</b>
-	- 1	- 1

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	- 3	- 3
	- 4	- 4
-	- 5	- 5
	- 6	- 6
	- 7	- 7
		<b>:(*9)</b>
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	- 3	( ) - 3
		<b>:(*10)</b>
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		-	- 7	- 7
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		- 9	- 9
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(Leibel , 1972 , p19 2007/05/05 ) :\*1  
 ( Holder , 1974 , p51 Leibel , 1972 , pp53-55 2007/05/05 ) :\*2  
 (144 2004 Holder , 1972 , p171) :\*3  
 (47 27-25 2004 ) :\*4  
 (154 2004 Holder , 1974 , pp30-31) :\*5  
 (2007/05/05 Sontoy , 1989 , pp2-5) :\*6  
 (155-154 2004 Leibel , 1972 , p31-33) :\*7  
 (154-153 2004 Leibel , 1972 , pp45-49 Sontoy , 1989 , pp6-8) :\*8  
 (Holder , 1974 , p193) :\*9  
 (153-146 2004 ) :\*12 \*11 \*10  
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Heights Cockle : -1-8

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(81-74 2004 ) .  
(54 1995 ) .

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## الباب الثاني

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(134 1995 ) .

(243 2007 ) .

(96 2006 ) .

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2010/2009			.	
	2694		12	
	% 64.25	1731	% 35.74	963
% 34.61	720	2080		
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64	16	61	21	162	121	41		01
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85	46	62	32	187	124	63		03
92	71	96	83	356	190	166		04
272	144	258	158	826	513	313		

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0.95	18.42	64		1.08	18.71	16	
		31				11	
		85				46	
		92				71	
-	-	272		-	-	144	





Hembree , 1988 ; El zahhar & Hocevar , 1991 ; Nasser & :

(79 2007 ) T Akahashi , 1996

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		State – Trait Anxiety inventory	*
		.(1992)	
		Spielberger & al (1983)	
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		9 (	
(118 2002 ) .			
65 (1984)			*
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		(50-1	1984
)		Test Anxiety inventory (TAI)	*
20 .(1978) Spielberger & al		(	
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		(4 1989 ) .	
Test Anxiety scale (TAS)		Sarason	*
		37	

6 27 : 33  
 (80-68 1988 ) .( )  
 Sports Anxiety scale (SAS) \*

4 31 : 35 (1990)  
 (635 - 573 1990 ) .( )  
 Test Anxiety scale for children (TASC) \*

Srason & al  
 42 . 30  
 .( ) 30  
 (1991)  
 38  
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 (101-93 1991 ) ."  
 93 (1999) \*

( ) : 6  
 (102 2000 ) .  
 (2004) \*

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 .( )  
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 (19-1 2004  
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(67-31 1995 ) . :

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- - -		(1984)	
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 59 58 57 56 55 53 52 51 50 49 48 47 46 45 44 43 42 40  
 23 22 21 16 14 12 11 8 7 6 2 1 : 23



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26	03	21 16 14 12 11 8 7 6 2 1 35 33 29 28 26 25 24 23 22 60 54 41 36	
24	05	83 82 81 71 66 64 62 47 32 108 101 100 98 96 95 87 86 118 114	
18	04	85 78 77 76 74 72 70 67 65 117 107 104 103 85	
14	05	113 110 99 59 58 56 43 34 9	
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60 51 50 49 39 38 37 27 26 25 15 14 13 3 2 1	
82 81 77 76 75 71 70 62,69 61	
63 54 53 52 42 41 40 30 29 28 18 17 16 6 5 4	
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66 57 56 55 45 44 43 33 32 31 21 20 19 9 8 7	
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59 58 48 47 46 36 35 34 24 23 22 12 11 10	

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(371 2002 ) .

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	0.05	0.207	1	
	0.05	0.247	2	
	0.01	0.374	3	
	0.01	0.568	4	
	0.01	0.396	5	
	0.01	0.453	6	
	0.01	0.448	7	
	0.01	0.624	8	
	0.01	0.452	9	
	0.01	0.303	10	
	0.01	0.549	11	

	0.01	0.309	12	
		0.163	13	
	0.01	0.430	14	
	0.01	0.553	15	
	0.01	0.375	16	
	0.01	0.475	17	
	0.01	0.406	18	
	0.01	0.471	19	
	0.01	0.296	20	
	0.01	0.271	21	
	0.01	0.442	22	
	0.05	0.233	23	
	0.01	0.444	24	
	0.01	0.345	25	
	0.01	0.357	26	
	0.01	0.557	27	
	0.01	0.589	28	
	0.01	0.568	29	
	0.01	0.397	30	
	0.01	0.410	31	
	0.01	0.541	32	
	0.01	0.353	33	
	0.01	0.309	34	
	0.01	0.604	35	

	0.01	0.626	36	
	0.05	0.222	37	
	0.01	0.389	38	
	0.01	0.285	39	
	0.01	0.424	40	
	0.01	0.461	41	
	0.01	0.621	42	
	0.01	0.399	43	
	0.01	0.392	44	
	0.01	0.358	45	
	0.01	0.534	46	
	0.01	0.354	47	
		0.196	48	
	0.01	0.510	49	
	0.01	0.467	50	
	0.01	0.433	51	
	0.01	0.448	52	
	0.01	0.513	53	
	0.01	0.516	54	
	0.01	0.676	55	
	0.01	0.558	56	



	0.01	0.462	57	
	0.05	0.198	58	
	0.01	0.475	59	
	0.01	0.631	60	
	0.01	0.602	61	
	0.01	0.430	62	
	0.01	0.508	63	
	0.01	0.322	64	
	0.01	0.568	65	
	0.01	0.677	66	
	0.01	0.416	67	
	0.01	0.480	68	
	0.01	0.480	69	
	0.01	0.293	70	
	0.01	0.312	71	
	0.01	0.355	72	
	0.01	0.441	73	
	0.01	0.413	74	
	0.01	0.429	75	
		0.196	76	

	0.01	0.400	77	
	0.01	0.263	78	
	0.01	0.443	79	
	0.01	0.375	80	
		0.132	81	
	0.01	0.483	82	

(37) (23) (2) (1)

(76) (48) (13)                      0.01                      0.05

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**:(14)**

		( )	
	0.05	0.255	1
	0.01	0.356	2
	0.01	0.290	3
	0.01	0.583	4
	0.01	0.521	5
	0.01	0.524	6
	0.01	0.541	7
	0.01	0.625	8
	0.01	0.544	9
	0.01	0.461	10

	0.01	0.492	11
	0.01	0.322	12
	0.01	0.279	13
	0.01	0.480	14
	0.01	0.591	15
	0.01	0.293	16
	0.01	0.543	17
	0.01	0.514	18
	0.01	0.532	19
	0.01	0.381	20
	0.01	0.842	21
	0.01	0.524	22
	0.01	0.389	23
	0.01	0.511	24
	0.01	0.416	25
	0.01	0.333	26

.05

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0.01

:(15)

		( )	
	0.01	0.576	1
	0.01	0.641	2
	0.01	0.629	3
	0.01	0.473	4
	0.01	0.332	5
	0.01	0.550	6

	0.01	0.472	7
	0.01	0.387	8
	0.01	0.581	9
	0.01	0.698	10
	0.01	0.279	11
	0.01	0.458	12
	0.01	0.328	13
	0.01	0.432	14
	0.01	0.565	15
	0.01	0.660	16
	0.01	0.390	17
	0.01	0.452	18
	0.01	0.457	19
	0.01	0.640	20
	0.01	0.424	21
	0.05	0.236	22
	0.01	0.570	23
	0.01	0.465	24

. 0.05

(22)

0.01

:(16)

		( )	
	0.01	0.550	1
	0.01	0.498	2
	0.01	0.595	3
	0.01	0.572	4

	0.01	0.711	5
	0.01	0.611	6
	0.01	0.588	7
	0.01	0.443	8
	0.01	0.516	9
	0.01	0.721	10
	0.01	0.680	11
	0.01	0.601	12
	0.01	0.553	13
	0.01	0.350	14
	0.01	0.630	15
	0.01	0.770	16
	0.01	0.557	17
	0.01	0.395	18

. 0.01

:(17)

		( )	
	0.01	0.544	1
	0.01	0.630	2
	0.01	0.527	3
	0.01	0.386	4
	0.01	0.457	5
	0.01	0.658	6
	0.01	0.580	7
	0.01	0.555	8

	0.01	0.331	9
	0.01	0.476	10
	0.01	0.397	11
	0.01	0.565	12
	0.01	0.411	13
	0.01	0.544	14

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(81 76 48 13)

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/			/			/			/			
0.01	0.574		0.01	0.612		0.01	0.694	-	-	-		
0.01	0.491		0.01	0.771	-	-	-		0.01	0.694		
0.01	0.474	-	-	-		0.01	0.771		0.01	0.612		
-	-	-	0.01	0.474		0.01	0.491		0.01	0.574		

.(0.01)

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:(19)

		( )	
	0.01	0.872	
	0.01	0.900	
	0.01	0.862	
	0.01	0.705	

معاملات الارتباط بين الأبعاد والدرجة الكلية للمقياس كلها

تمتع المقياس بصدق

دالة عند مستوى (0.01).

الاتساق الداخلي.

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(158 2007 ) .

(100 = )

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(% 27)

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	( )					
0.01	20.98	3.42 4.21	64.04 41.80	27 27		
0.01	18.46	2.98 5.09	62.63 41.40	27 27		
0.01	23.53	3.64 2.16	41.63 22.10	27 27		
0.01	22.47	2.21	35.96	27		

		2.08	22.70	27		
0.01	19.60	10.38 13.23	198.70 134	27 27		

(0.01)

% 27

(152 1993 ) ."

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**0.674	
**0.571	
**0.574	
**0.511	
**0.691	

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عن طريق تقسيم المقياس وأبعاده إلى فقرات فردية وأخرى زوجية

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**0.902	
**0.875	
**0.888	
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0.05 :\*

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**0.852	
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Francois Milkowska

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Cain Maurice Porot

": Maurice Porot Lewis Corman

(Corman , 1996 , p16) ."

(1992) Florance Goenough \*

40 (1965) Dale Harris .

1993 ) .(1982)

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(1934) Emile Juckor

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Maroom

(Eysenck , 1961 , p85).(

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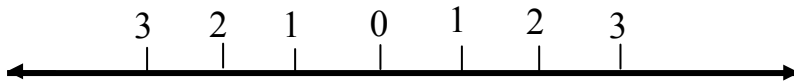






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 22 (1951) Levinson & Zubin  
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Klages

(106-105 2004 )  
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(1961) Eysenk

Levinson & Zubin (1951)

Eysenk (1961)

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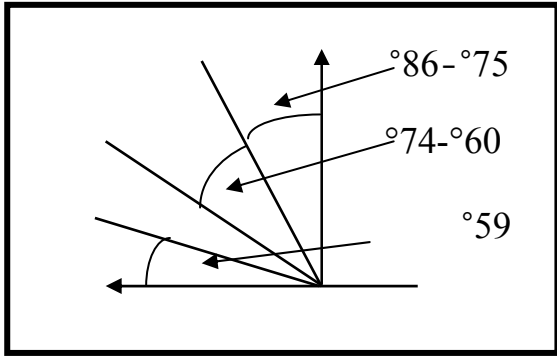
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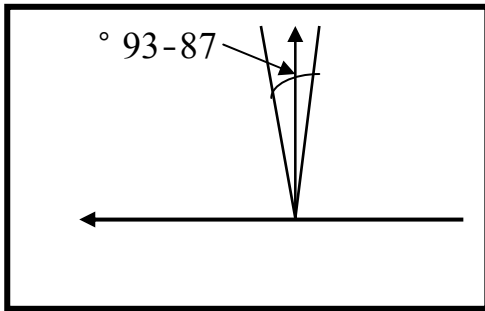


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$\left\{ \begin{array}{l} \text{°}75 - \text{°}86 \\ \text{°}60 - \text{°}74 \\ \text{°}59 \end{array} \right. \begin{array}{l} - \\ - \\ - \end{array}$



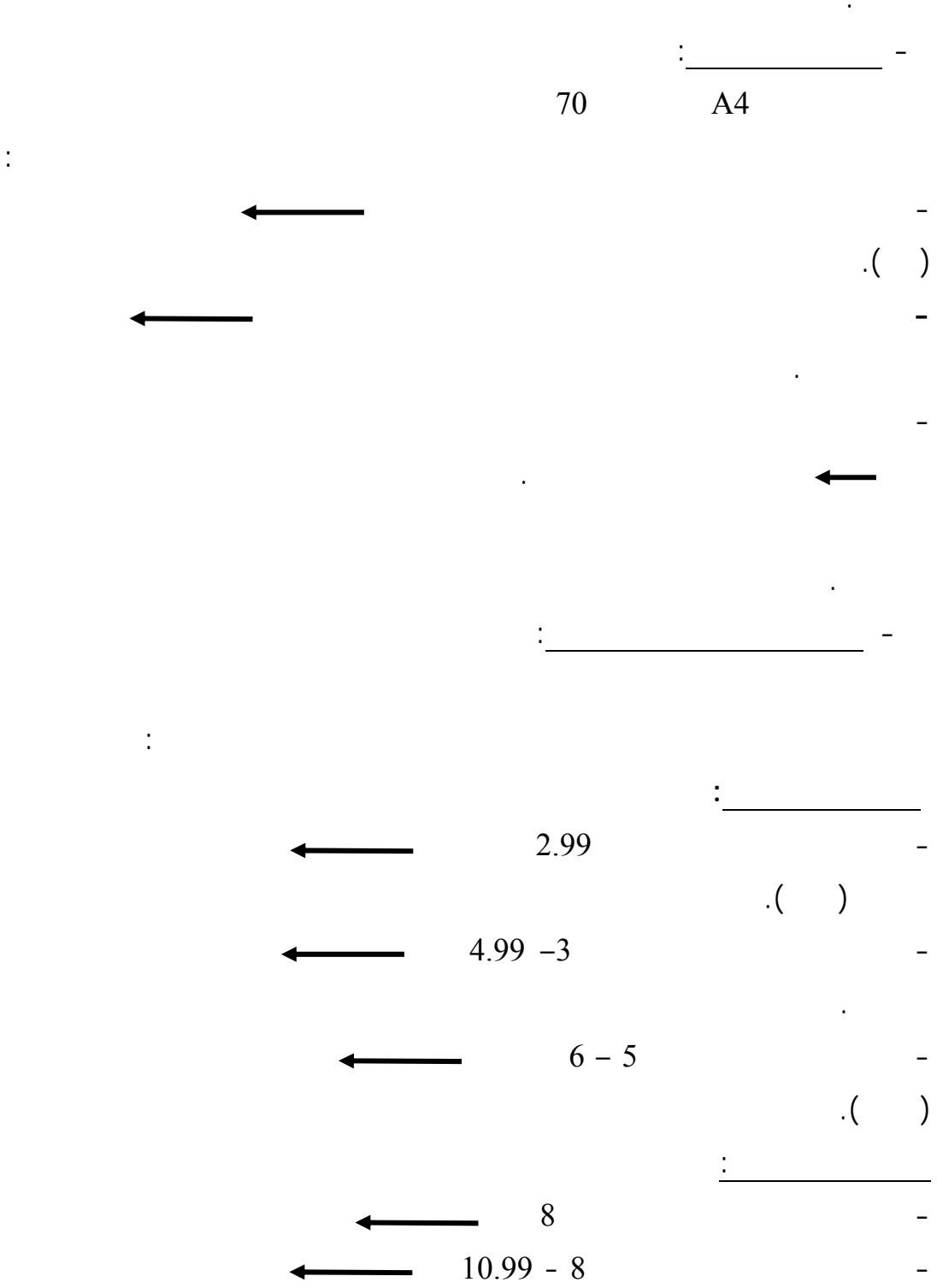
← °93 - °87 -



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0.86 2.74





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0.01	11	0 6	100 78	27 27		
0.01	9.57	1.95 0.92	19.30 12.50	27 27		
0.01	11.92	0.37 0.18	3.77 2.22	27 27		-
0.01	6.57	1.11 0.34	11.06 8.56	27 27		-
0.01	13.20	0.20 0.23	2.98 1.66	27 27		-
0.01	9.57	0.18 0.14	2.09 1.42	27 27		-

0.01	7.27	0.51 0.25	2.88 1.57	27 27		-
0.01	9.65	6.45 4.93	99.09 73.03	27 27		

(0.01)

% 27

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:(25)

** 0.34	
** 0.58	
* 0.24	-
** 0.42	-
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3.32	18.30	30	33	16 - 1	
		70	77	31 - 17	
		00	00	47 - 32	
		100	110		

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3.32

18.30

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((02) )

(28)

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			%					
0.62	2.37	10	00	11	00	6		
			00		00	(4.5 - 6)		
			10		11	(3.25-4.49)		
		22.72	22.72	25	25	(2.75-3.24)		
		67.26	63.63	74	70	(1.5-2.74)		
			3.63		04	(0.86-1.49)		
			00		00	0.86		
-	-	<b>99.98</b>	-	<b>110</b>	-			

0.40	1.76	00	00	00	00	6		
			00		00	(4.5 - 6)		
			00		00	(3.25-4.49)		
		3.63	3.63	04	04	(2.75-3.24)		
		96.36	70	106	77	(1.5-2.74)		
			26.36		29	(0.86-1.49)		
			00		00	0.86		
		-	-	<b>99.99</b>	-	<b>110</b>	-	
0.61	1.94	3.63	00	04	00	6		
			00		00	(4.5 - 6)		
			3.63		04	(3.25-4.49)		
		6.36	6.36	07	07	(2.75-3.24)		
		89.98	68.18	99	75	(1.5-2.74)		
			20.90		23	(0.86-1.49)		
			0.90		01	0.86		
		-	-	<b>99.97</b>	-	<b>110</b>	-	

(28)

2.74

% 67.26



:(29)

		%				
0.82	2.99	54.54	60	2.99		
		44.54	49	(4.99-3)		
		0.90	01	(6-5)		
-	-	99.98	110			

(29)

% 54.54

% 44.54

.% 0.90

2.99

0.82

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(30)

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:(30)

		%				
2.20	10.78	5.45	06	8		
		50	55	(10.99-8)		
		44.54	49	(15-11)		
-	-	99.99	110			

(30)

% 50

% 44.54

.% 5.45

2.20

10.78

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(31) ((02) )

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:(31)

		%			
10.70	93.81	96.36	106	5 4	
		3.63	04	3	
		00	00	2	
-	-	99.99	110		

(31)

% 96.36

.% 3.63

( )

% 10.70

% 93.81

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	108	1.80	3.43	18.20	2.58	18.83		
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	108	0.64	0.64	2.35	0.52	2.45		
	108	0.25	0.39	1.75	0.45	1.78		
	108	0.09	0.64	1.94	0.44	1.96		
	108	0.29	0.82	3.007	0.85	2.94		
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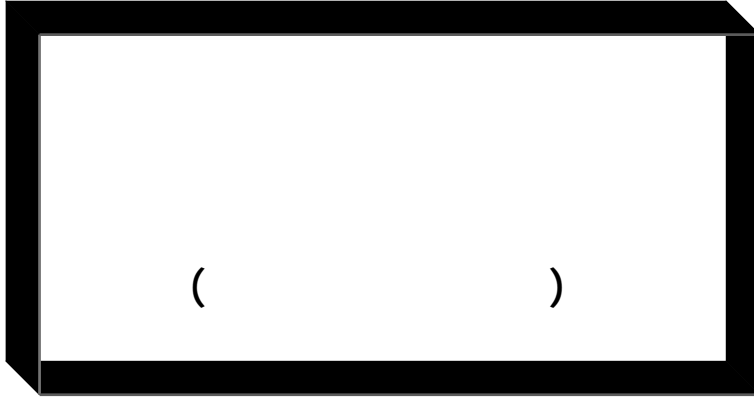
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	0.05	0.247	2	
	0.01	0.374	3	
	0.01	0.568	4	
	0.01	0.396	5	



	0.01	0.453	6		
	0.01	0.448	7		
	0.01	0.624	8		
	0.01	0.452	9		
	0.01	0.303	10		
	0.01	0.549	11		
	0.01	0.309	12		
		0.163	13		
	0.01	0.430	14		
	0.01	0.553	15		
	0.01	0.375	16		
	0.01	0.475	17		
	0.01	0.406	18		
	0.01	0.471	19		
	0.01	0.296	20		
	0.01	0.271	21		
	0.01	0.442	22		
	0.05	0.233	23		
	0.01	0.444	24		
	0.01	0.345	25		
	0.01	0.357	26		
	0.01	0.557	27		
	0.01	0.589	28		
	0.01	0.568	29		
	0.01	0.397	30		
	0.01	0.410	31		

	0.01	0.541	32	
	0.01	0.353	33	
	0.01	0.309	34	
	0.01	0.604	35	
	0.01	0.626	36	
	0.05	0.222	37	
	0.01	0.389	38	
	0.01	0.285	39	
	0.01	0.424	40	
	0.01	0.461	41	
	0.01	0.621	42	
	0.01	0.399	43	
	0.01	0.392	44	
	0.01	0.358	45	
	0.01	0.534	46	
	0.01	0.354	47	
		0.196	48	
	0.01	0.510	49	
	0.01	0.467	50	
	0.01	0.433	51	
	0.01	0.448	52	
	0.01	0.513	53	
	0.01	0.516	54	

	0.01	0.676	55	
	0.01	0.558	56	
	0.01	0.462	57	
	0.05	0.198	58	
	0.01	0.475	59	
	0.01	0.631	60	
	0.01	0.602	61	
	0.01	0.430	62	
	0.01	0.508	63	
	0.01	0.322	64	
	0.01	0.568	65	
	0.01	0.677	66	
	0.01	0.416	67	
	0.01	0.480	68	
	0.01	0.480	69	
	0.01	0.293	70	
	0.01	0.312	71	
	0.01	0.355	72	
	0.01	0.441	73	
	0.01	0.413	74	

	0.01	0.429	75	
		0.196	76	
	0.01	0.400	77	
	0.01	0.263	78	
	0.01	0.443	79	
	0.01	0.375	80	
		0.132	81	
	0.01	0.483	82	

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	0.01	0.541	7
	0.01	0.625	8

	0.01	0.544	9
	0.01	0.461	10
	0.01	0.492	11
	0.01	0.322	12
	0.01	0.279	13
	0.01	0.480	14
	0.01	0.591	15
	0.01	0.293	16
	0.01	0.543	17
	0.01	0.514	18
	0.01	0.532	19
	0.01	0.381	20
	0.01	0.842	21
	0.01	0.524	22
	0.01	0.389	23
	0.01	0.511	24
	0.01	0.416	25
	0.01	0.333	26

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	0.01	0.472	7
	0.01	0.387	8
	0.01	0.581	9
	0.01	0.698	10
	0.01	0.279	11
	0.01	0.458	12
	0.01	0.328	13
	0.01	0.432	14
	0.01	0.565	15
	0.01	0.660	16
	0.01	0.390	17
	0.01	0.452	18
	0.01	0.457	19
	0.01	0.640	20
	0.01	0.424	21
	0.05	0.236	22
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	0.01	0.572	4

	0.01	0.711	5
	0.01	0.611	6
	0.01	0.588	7
	0.01	0.443	8
	0.01	0.516	9
	0.01	0.721	10
	0.01	0.680	11
	0.01	0.601	12
	0.01	0.553	13
	0.01	0.350	14
	0.01	0.630	15
	0.01	0.770	16
	0.01	0.557	17
	0.01	0.395	18

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	0.01	0.544	1
	0.01	0.630	2
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	0.01	0.457	5
	0.01	0.658	6
	0.01	0.580	7
	0.01	0.555	8
	0.01	0.331	9

	0.01	0.476	10
	0.01	0.397	11
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معاملات الارتباط بين الأبعاد والدرجة الكلية للمقياس كلها دالة

تمتع المقياس بصدق الاتساق

عند مستوى (0.01).

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0.01	22.47	2.21 2.08	35.96 22.70	27 27		

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**0.852	**0.902	**0.674	
**0.863	**0.875	**0.571	
**0.882	**0.888	**0.574	
**0.770	**0.683	**0.511	
**0.656	**0.956	**0.691	

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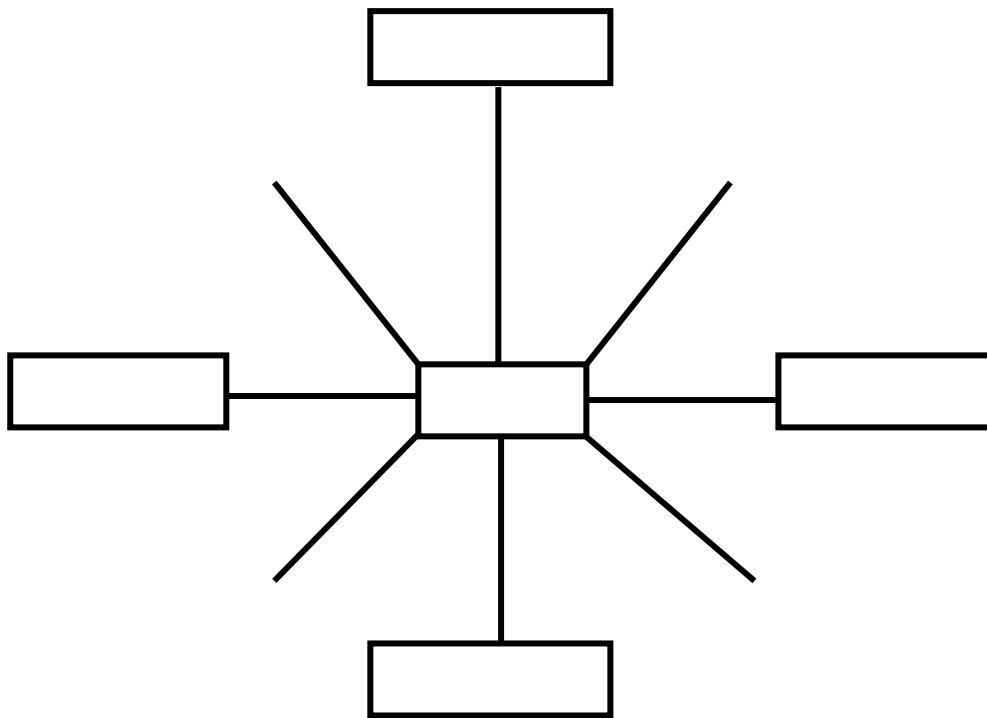
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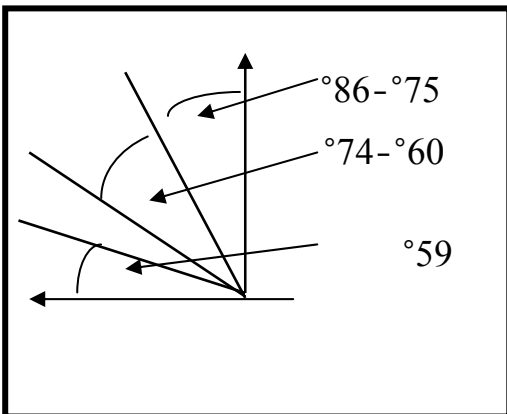
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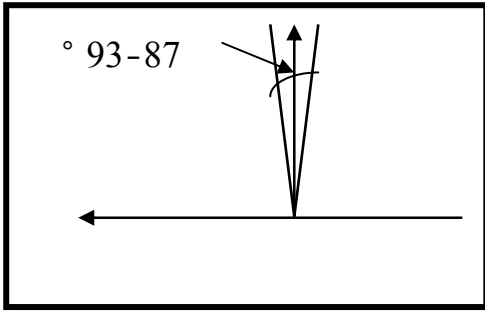
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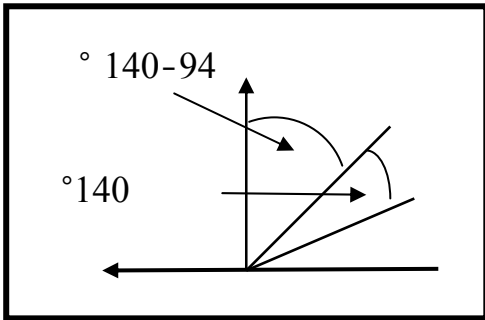
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		بين الكلمات	بين السطور	أعلى	وسط	أسفل		
19	80	2.33	8.33	1.66	1.44	2.33	72.66	1
14	100	4	10.66	2.41	1.66	1.5	74.33	2
21	100	2.66	9.66	3.33	2.72	2.41	65	3
19	80	3.33	9.33	1.75	2.08	1.58	76	4
16	100	3.33	10	1.75	1.5	2.25	79.33	5
14	60	2.5	6.66	1.91	1.41	1.58	97	6
15	100	2.83	10.33	3	1.97	3.25	68.33	7
21	80	2.66	8.16	1.75	1.44	1.5	105	8
20	100	3.33	9.33	1.83	1.16	1.66	83.66	9
12	100	2.83	10.16	2.41	1.47	1.33	108.33	10
20	100	6	14.33	3	2.11	4.16	100	11
19	100	2.66	11.66	2.58	2.13	2.66	80.33	12
18	100	1.83	10	2.58	1.83	0.66	87.66	13
17	100	2.16	10.66	2.5	1.91	1.83	82.33	14
22	100	4.16	12	3.08	2.16	2.5	85	15
23	80	2.66	14.66	2.75	2.52	2	70.33	16
23	100	1.83	10	1.66	3	2.41	80.66	17
19	100	2.83	9.5	1.91	2.16	2	86.66	18
18	100	1.83	10	2.41	1.47	3.33	65.66	19
11	80	3	11	1.5	1.66	1.83	58.66	20
14	100	2	10	2.58	1.72	2.25	70.66	21
17	100	2.66	9.66	2.91	2.02	2.41	74.66	22
21	80	3.5	12.5	3.66	2.58	2.25	80	23
18	100	4	10	1.75	1.69	2.25	76	24
21	80	4.16	8.66	1.91	1.75	1.91	88.66	25
19	100	3.33	15.33	2.5	1.63	1.83	70.33	26
17	100	3.33	15	1.33	1.36	1.16	58.66	27

22	100	3.83	11.33	2.75	1.63	1.75	77.66	28
22	100	2.16	11	2.33	1.27	1.41	75.33	29
25	100	2.33	11	2.75	1.86	2.41	69.33	30
22	100	3.5	12.33	2.08	2.75	2.5	73.33	31
20	100	2.5	10	1.33	1.27	1.33	89	32
23	80	2.33	12.33	1.66	1.19	1.41	90	33
16	100	3.83	9.33	2.33	1.33	1.58	118	34
16	100	2	9.33	2.16	1.63	1.83	94.66	35
15	100	2.66	10.66	1.75	1.61	1.08	89.66	36
15	100	3.16	8.66	3.08	1.36	2.16	71	37
21	100	1.83	20	2.41	1.91	1.91	58	38
19	100	2.5	16	2.5	1.27	1.33	75.33	39
20	100	2.83	9	2.5	1.66	2.08	79	40
18	80	4	12.66	4.16	2.08	2.16	100.66	41
17	100	1.83	8	3.5	1.77	2	81.66	42
20	60	2.16	9.66	1.91	1.52	1.25	67.66	43
17	100	4.16	11.83	1.5	2.13	2.25	81.33	44
17	100	4.5	12.16	3.33	1.44	2.16	72	45
18	100	2.16	12.33	1.58	1.94	1.33	79.33	46
17	100	2.16	11	1.83	1.5	1.83	69	47
17	80	2.83	12	2.83	1.8	2.91	90	48
22	100	3	9.66	3	1.58	1.58	79	49
19	60	4.5	12.66	3.83	1.91	2.75	74	50
14	80	4.33	11.66	1.75	1.25	1.08	90	51
16	100	3.16	9.66	1.66	0.94	1.16	85	52
14	80	2.5	10.66	1.66	1.38	1.75	84.33	53
17	100	2.66	9.66	2.33	1.66	1.58	79.66	54
13	100	2.33	11.33	3.33	1.91	3.16	103.33	55
16	100	3.33	9.66	1.66	1.75	2.75	85.66	56
19	100	2.83	12.66	2.83	2.16	1.83	68	57
19	100	2.66	9.33	3.16	1.52	1.41	79.33	58
16	80	1.66	9	1.83	1.41	1.83	85.33	59
16	100	2.66	10.33	3.08	1.86	2.16	75.33	60
17	100	2.66	11.33	2	1.8	1.83	84.33	61
15	80	2	12	1.91	2.25	2.08	75.66	62
27	100	3.83	15.5	2.83	1.27	1.5	68.66	63
22	100	3	12.5	2.25	1.75	2.58	96.66	64
21	100	2.5	10.33	1.91	1.61	1.58	90	65



22	100	1.16	8	1.58	2.33	1.25	77.33	66
19	100	3.33	8	2.66	1.41	2.5	82	67
21	100	2.5	10	1.58	1.88	1.58	60.33	68
22	100	4.83	11	2.66	1.91	2.25	93	69
18	80	2.83	9	2.08	1.86	1.16	69.33	70
21	100	4.66	13	2.66	2	2.5	87.66	71
19	80	4.16	11.83	1.91	2.25	1.66	80.33	72
14	100	2.83	13	3.5	2.63	2.66	83.66	73
15	100	3.5	13.33	3.08	2.05	3.5	65.33	74
19	80	3.5	8.33	1.58	1.22	1.25	95.66	75
16	100	3.33	11	2.75	1.66	2.5	75	76
19	80	3	8	1.5	1.75	1.25	65.33	77
13	100	2.33	11.66	2.5	1.8	1.33	77.33	78
29	100	2.33	8.33	1.83	1.66	1.83	71.66	79
21	100	3.16	15.66	3	1.97	1.91	71	80
14	100	3.66	10	3.25	1.94	2.08	80	81
20	80	3.16	6.33	2.25	1.52	1.25	93.33	82
15	80	3.33	7.66	1.25	1.08	1.58	86.66	83
10	60	2.5	7.16	2.41	1.52	2.16	75.33	84
21	100	2.5	10.33	2.91	1.94	2.33	82	85
17	80	2.5	8.33	1.41	1.38	1.58	93.66	86
14	100	1.5	8.66	2.58	1.5	1.83	74.66	87
14	100	3.66	12	2.91	1.77	1.91	63.33	88
21	100	2.5	8.66	1.58	1.13	1.5	71.33	89
18	100	2	9	2	1.41	1.75	66	90
22	100	3	11.33	2.58	1.88	2.83	96.66	91
18	100	3	12.66	3	2	2.41	82	92
16	100	3.66	10	2.08	2	2.16	89.33	93
23	100	2.66	10.33	2	1.91	1.58	67.33	94
18	100	4.16	12.66	3.33	1.16	1	94.33	95
17	100	2.66	9.33	2.33	1.47	2.33	96	96
19	80	4.83	14.66	3.25	1.69	1.66	79	97
21	80	2.83	8.83	2.16	1.55	1.91	81	98
23	100	2.83	11.16	3.08	1.58	2.16	71	99
18	100	3.16	11.66	2.25	2.25	1.5	83	100
18	100	3	10.33	2.83	3	2.08	90	101
24	100	4.33	11	1.91	1.58	0.91	72.66	102
17	100	3.83	14.33	3.08	1.8	2.83	82.33	103

22	80	2.83	11	2.41	1.97	1.58	68	104
13	100	4	9.66	2.08	1.66	1.91	90	105
21	80	2.66	11	2.83	1.69	1.75	74.33	106
15	100	4.16	13.66	2.58	3	4.08	88	107
14	100	2.66	12.33	2.91	1.38	1.83	73.33	108
17	100	2	6.83	1.66	1.75	1.25	88.33	109
18	80	2	8.66	1.91	1.36	1.41	70.66	110

الأفراد	الدرجة الكلية	البعد 1	البعد 2	البعد 3	البعد 4
1	236	73	72	52	39
2	223	68	63	52	40
3	221	73	68	43	37
4	218	65	72	44	37
5	217	71	62	45	39
6	217	68	66	45	38
7	216	65	69	45	37
8	213	67	67	41	38
9	213	66	69	44	34
10	213	66	63	43	41
11	212	65	60	48	39
12	212	64	68	47	33
13	212	69	66	45	32
14	210	68	63	48	31
15	210	63	63	45	39
16	209	66	67	45	31
17	209	68	63	40	38
18	208	65	61	46	36
19	208	59	65	46	38
20	207	59	64	47	37
21	205	60	67	43	35
22	205	67	62	38	38
23	204	62	61	46	35
24	204	64	63	43	34
25	203	71	63	35	34
26	203	59	64	45	35
27	203	62	62	41	38
28	202	61	62	44	35

32	38	63	69	202	29
36	35	64	67	202	30
31	42	61	68	202	31
38	48	65	51	202	32
38	45	60	58	201	33
36	38	63	64	201	34
33	44	62	62	201	35
34	41	68	58	201	36
29	47	65	60	201	37
37	45	60	58	200	38
29	44	64	62	199	39
39	37	64	59	199	40
31	52	67	49	199	41
29	46	64	60	199	42
31	46	65	56	198	43
34	32	63	69	198	44
32	30	65	70	197	45
36	27	67	67	197	46
37	42	67	51	197	47
36	37	58	66	197	48
30	36	67	64	197	49
35	45	62	55	197	50
31	43	62	61	197	51
28	42	66	61	197	52
32	43	62	59	196	53
28	47	63	58	196	54
28	46	62	60	196	55
30	41	64	60	195	56
26	50	64	55	195	57
30	39	59	67	195	58
30	44	60	60	194	59
32	40	60	62	194	60
37	31	62	64	194	61
33	43	57	61	194	62
28	43	58	65	194	63
33	43	58	60	194	64
33	35	61	65	194	65
36	37	64	57	194	66

33	41	64	56	194	67
27	36	60	70	193	68
36	38	56	63	193	69
35	40	62	56	193	70
32	38	60	62	192	71
26	43	60	62	191	72
28	45	62	56	191	73
29	40	69	53	191	74
31	36	64	60	191	75
32	41	61	57	191	76
33	38	58	62	191	77
31	43	60	57	191	78
41	35	56	59	191	79
27	44	57	63	191	80
31	34	58	67	190	81
30	44	56	60	190	82
33	38	57	62	190	83
27	51	61	51	190	84
32	35	58	65	190	85
34	41	58	56	189	86
40	36	62	51	189	87
35	42	60	51	188	88
33	37	58	60	188	89
31	40	64	53	188	90
31	43	60	54	188	91
33	34	58	63	188	92
32	41	60	55	188	93
34	38	55	61	188	94
29	41	63	54	187	95
28	42	58	59	187	96
33	32	60	62	187	97
29	39	64	55	187	98
28	35	63	61	187	99
31	38	61	57	187	100
32	40	55	60	187	101
30	33	64	60	187	102
32	38	55	62	187	103
34	29	63	61	187	104

29	35	63	60	187	105
33	43	63	47	186	106
29	41	59	57	186	107
25	32	64	65	186	108
26	39	63	58	186	109
37	29	59	60	185	110