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38	21	17	14-12
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236	135	101	

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(Bernstein& et al,1994,P. 385)

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(Wode,2000,P.92 )

(Vernon,1950)

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1974 Jocklm & Maccoby

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(Magill&Rodrigue, 1996,P.366)

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Saltzman Carter Scorr

(Feldman, 1996,P.315)

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( Sprintholl& Sprintholl,1981,P.182)

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22	0.163 *	236	0.198 **	129	0.174 *	214	0.200 **	236	×0.141	225	0.152 *

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(ieter Vroon, 2001)

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(Maryororipanks,1991)

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P			P	F				
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(Christopher Hertzog, 1989)

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0.00	15.587		1.795	27.985	
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0.00	5.043	0.309	3.615	18.230	
0.001	3.454	0.275	0.171	0.591	
0.003	3.074		0.256	0.786	
0.426	0.798	0.212	5.089	4.063	
0.018	2.402	0.564	0.169	0.406	
0.000	4.934	0.448	0.327	1.613	
0.000	3.757	0	0.009	0.0348	

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(Sandra,1997)

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$$\times 0.0348+ \dots \times$$

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P					
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- 1- Bernstein, D. & et al (1994): Psychology, Third Edition, Houghton Mifflin company, U.S.A
- 2- Feldman, R. (1996): Understanding Psychology, Fourth Edition, McGraw Hill, and U.S.A.
- 3- Jen., & Kaufman, A. (1993): Changes In Fluid and Crystallized Intelligence Range On The K-Bit , Journal of Psychoeducational assessment, Vol.11 , No1.
- 4- Magill & Roediger, H. et al (1984): Psychology, little Brown and Comoany, Inc,
- 5- Raven , J. & J H Court (1998) : Raven Manual :Section3 Standard Progressive Matrices , Oxford Psychologists Press , UK.
- 6- Sandra ,H. (1997): Age processing speed, workink memory and fluid intelligence in children, PHD, Hale Sandra
- 7- Sprinthall, R. & Sprinthall, N. (1981):Educational Psychology A developmental Approoch, Third Edition, Wesley Publishing Company, U. S. A.
- 8- Trevor, S. (1992): The effects of intelligence social class early development on school achievement of Puerto Rican Children Temple, university
- 9- Vroon, P. (2001): Models of Educational Career with and without IQ Measurements, The Journal Psychology, Vol.121,and Issue 3.
- 10- Wode , C. &Tarris ,C. (2000) : Psychology , Sixth edition , Prentice Hill ,Inc. U.S. A:

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.2003/4/21