

IRTPRO Version 4.2**Output generated by IRTPRO estimation engine Version 5.20 (64-bit)**

Project:	Burnout Scale E-Sports
Description:	
Date:	06 October 2023
Time:	03:31 PM

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Item	Label	a	c ₁	c ₂	c ₃	c ₄
1	ABO1	0.89	3.00	1.13	-0.88	-3.07
2	ABO2	1.79	3.25	0.88	-1.71	-3.90
3	ABO3	1.77	2.67	0.61	-2.18	-4.31
4	ABO4	1.53	3.02	0.56	-1.62	-3.82
5	ABO5	2.43	3.67	0.90	-1.23	-4.02
6	ABO6	2.51	3.57	0.86	-1.94	-4.26
7	ABO7	1.96	2.44	0.49	-1.61	-3.55
8	ABO8	2.36	2.69	0.75	-1.65	-4.31
9	ABO9	1.89	2.82	0.37	-2.09	-4.31
10	ABO10	0.44	3.87	-0.82	-2.43	
11	ABO11	1.94	2.27	0.39	-1.62	-3.85
12	ABO12	0.98	1.90	0.49	-1.45	-2.78
13	ABO13	1.87	2.33	0.35	-1.48	-3.59
14	ABO14	2.00	1.67	-0.03	-2.21	-4.07
15	ABO15	1.11	1.13	-0.09	-1.86	-3.47

Graded Model Item Parameter Estimates for Group 1, logit: $a(\theta - b)$ [\(Back to TOC\)](#)

Item	Label	a	b ₁	b ₂	b ₃	b ₄
1	ABO1	0.89	-3.39	-1.27	0.99	3.46
2	ABO2	1.79	-1.82	-0.49	0.96	2.18
3	ABO3	1.77	-1.51	-0.34	1.23	2.43
4	ABO4	1.53	-1.97	-0.37	1.06	2.50
5	ABO5	2.43	-1.51	-0.37	0.51	1.66
6	ABO6	2.51	-1.42	-0.34	0.77	1.70
7	ABO7	1.96	-1.24	-0.25	0.82	1.81
8	ABO8	2.36	-1.14	-0.32	0.70	1.82
9	ABO9	1.89	-1.49	-0.20	1.10	2.28
10	ABO10	0.44	-8.84	1.87	5.54	
11	ABO11	1.94	-1.17	-0.20	0.84	1.99
12	ABO12	0.98	-1.95	-0.51	1.48	2.85
13	ABO13	1.87	-1.24	-0.19	0.79	1.91
14	ABO14	2.00	-0.84	0.01	1.11	2.04
15	ABO15	1.11	-1.01	0.08	1.67	3.11

Group Parameter Estimates [\(Back to TOC\)](#)

Group	Label	μ	σ^2	σ
1	Group 1	0.00	1.00	1.00

Summed Score to Scale Score Conversion Table [\(Back to TOC\)](#)

Summed Score	EAP[θx]	SD[θx]	Modeled Proportion
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0	-2.931	0.524 0.0000660
1	-2.800	0.499 0.0009485
2	-2.565	0.456 0.0024391
3	-2.361	0.424 0.0041925
4	-2.179	0.397 0.0059818
5	-2.016	0.374 0.0077283
6	-1.868	0.355 0.0094190
7	-1.732	0.339 0.0110727
8	-1.607	0.327 0.0127134
9	-1.489	0.317 0.0143601
10	-1.378	0.309 0.0160218
11	-1.273	0.303 0.0176972
12	-1.173	0.298 0.0193759
13	-1.076	0.294 0.0210407
14	-0.982	0.291 0.0226710
15	-0.891	0.288 0.0242451
16	-0.802	0.287 0.0257430
17	-0.715	0.285 0.0271481
18	-0.629	0.284 0.0284470
19	-0.544	0.283 0.0296294
20	-0.461	0.283 0.0306867
21	-0.377	0.283 0.0316101
22	-0.294	0.283 0.0323887
23	-0.212	0.283 0.0330094
24	-0.130	0.283 0.0334562
25	-0.049	0.283 0.0337115
26	0.032	0.283 0.0337586
27	0.113	0.283 0.0335839
28	0.195	0.284 0.0331799
29	0.276	0.284 0.0325470
30	0.357	0.284 0.0316945
31	0.438	0.285 0.0306397
32	0.520	0.285 0.0294067
33	0.601	0.285 0.0280237
34	0.683	0.285 0.0265206
35	0.766	0.285 0.0249268
36	0.849	0.286 0.0232698
37	0.932	0.286 0.0215751
38	1.015	0.286 0.0198659
39	1.099	0.286 0.0181640
40	1.184	0.287 0.0164895
41	1.269	0.287 0.0148613
42	1.356	0.289 0.0132963
43	1.444	0.290 0.0118092
44	1.533	0.292 0.0104113
45	1.624	0.294 0.0091102
46	1.718	0.297 0.0079095
47	1.814	0.301 0.0068089
48	1.913	0.306 0.0058051
49	2.016	0.312 0.0048924
50	2.123	0.320 0.0040643
51	2.235	0.330 0.0033138
52	2.353	0.341 0.0026354
53	2.479	0.355 0.0020256
54	2.613	0.372 0.0014841
55	2.757	0.391 0.0010145

56	2.911	0.413 0.0006248
57	3.077	0.438 0.0003260
58	3.245	0.459 0.0001279
59	3.436	0.486 0.0000303

Marginal reliability of the scaled scores for summed scores = 0.91405

Summary of the Data and Control Parameters [\(Back to TOC\)](#)

Sample Size 453

Number of Items 15

Number of Dimensions 1

Item	Label	Categories	Model
1	ABO1	5	Graded
2	ABO2	5	Graded
3	ABO3	5	Graded
4	ABO4	5	Graded
5	ABO5	5	Graded
6	ABO6	5	Graded
7	ABO7	5	Graded
8	ABO8	5	Graded
9	ABO9	5	Graded
10	ABO10	4	Graded
11	ABO11	5	Graded
12	ABO12	5	Graded
13	ABO13	5	Graded
14	ABO14	5	Graded
15	ABO15	5	Graded

Scoring Control Values

Scale scores for summed scores are tabulated and computed

Summed score equivalence threshold: 0.000010

Miscellaneous Control Values

Output Files

HTML results and control parameters:	C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-ssc.htm
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[Summary of the Data and Control Parameters](#)

Graded Model Item Parameter Estimates, logit: $a\theta + c$

Item	Label	a	s.e.	c ₁	s.e.	c ₂	s.e.	c ₃	s.e.	c ₄	s.e.
1	ABO1	⁵ 0.89	0.11	¹ 3.00	0.21	² 1.13	0.12	³ -0.88	0.11	⁴ -3.07	0.21
2	ABO2	¹⁰ 1.79	0.15	⁶ 3.25	0.23	⁷ 0.88	0.14	⁸ -1.71	0.16	⁹ -3.90	0.27
3	ABO3	¹⁵ 1.77	0.15	¹¹ 2.67	0.20	¹² 0.61	0.14	¹³ -2.18	0.18	¹⁴ -4.31	0.30
4	ABO4	²⁰ 1.53	0.14	¹⁶ 3.02	0.21	¹⁷ 0.56	0.13	¹⁸ -1.62	0.15	¹⁹ -3.82	0.26
5	ABO5	²⁵ 2.43	0.20	²¹ 3.67	0.27	²² 0.90	0.17	²³ -1.23	0.17	²⁴ -4.02	0.29
6	ABO6	³⁰ 2.51	0.21	²⁶ 3.57	0.27	²⁷ 0.86	0.17	²⁸ -1.94	0.20	²⁹ -4.26	0.30
7	ABO7	³⁵ 1.96	0.17	³¹ 2.44	0.19	³² 0.49	0.15	³³ -1.61	0.17	³⁴ -3.55	0.25
8	ABO8	⁴⁰ 2.36	0.20	³⁶ 2.69	0.22	³⁷ 0.75	0.16	³⁸ -1.65	0.18	³⁹ -4.31	0.31
9	ABO9	⁴⁵ 1.89	0.16	⁴¹ 2.82	0.21	⁴² 0.37	0.14	⁴³ -2.09	0.18	⁴⁴ -4.31	0.30
10	ABO10	⁴⁹ 0.44	0.11	⁴⁶ 3.87	0.32	⁴⁷ -0.82	0.11	⁴⁸ -2.43	0.17		
11	ABO11	⁵⁴ 1.94	0.17	⁵⁰ 2.27	0.18	⁵¹ 0.39	0.14	⁵² -1.62	0.17	⁵³ -3.85	0.27
12	ABO12	⁵⁹ 0.98	0.11	⁵⁵ 1.90	0.14	⁵⁶ 0.49	0.11	⁵⁷ -1.45	0.13	⁵⁸ -2.78	0.19
13	ABO13	⁶⁴ 1.87	0.16	⁶⁰ 2.33	0.18	⁶¹ 0.35	0.14	⁶² -1.48	0.16	⁶³ -3.59	0.25
14	ABO14	⁶⁹ 2.00	0.17	⁶⁵ 1.67	0.16	⁶⁶ -0.03	0.14	⁶⁷ -2.21	0.19	⁶⁸ -4.07	0.29
15	ABO15	⁷⁴ 1.11	0.12	⁷⁰ 1.13	0.12	⁷¹ -0.09	0.11	⁷² -1.86	0.15	⁷³ -3.47	0.24

Graded Model Item Parameter Estimates for Group 1, logit: $a(\theta - b)$ [\(Back to TOC\)](#)

Item	Label	a	s.e.	b ₁	s.e.	b ₂	s.e.	b ₃	s.e.	b ₄	s.e.
1	ABO1	⁵ 0.89	0.11	-3.39	0.41	-1.27	0.19	0.99	0.16	3.46	0.42
2	ABO2	¹⁰ 1.79	0.15	-1.82	0.16	-0.49	0.09	0.96	0.09	2.18	0.17
3	ABO3	¹⁵ 1.77	0.15	-1.51	0.14	-0.34	0.08	1.23	0.11	2.43	0.20
4	ABO4	²⁰ 1.53	0.14	-1.97	0.18	-0.37	0.09	1.06	0.11	2.50	0.22
5	ABO5	²⁵ 2.43	0.20	-1.51	0.13	-0.37	0.07	0.51	0.07	1.66	0.12
6	ABO6	³⁰ 2.51	0.21	-1.42	0.12	-0.34	0.07	0.77	0.07	1.70	0.12
7	ABO7	³⁵ 1.96	0.17	-1.24	0.12	-0.25	0.08	0.82	0.08	1.81	0.14
8	ABO8	⁴⁰ 2.36	0.20	-1.14	0.11	-0.32	0.07	0.70	0.07	1.82	0.13
9	ABO9	⁴⁵ 1.89	0.16	-1.49	0.14	-0.20	0.08	1.10	0.10	2.28	0.18
10	ABO10	⁴⁹ 0.44	0.11	-8.84	2.27	1.87	0.49	5.54	1.39		
11	ABO11	⁵⁴ 1.94	0.17	-1.17	0.12	-0.20	0.08	0.84	0.08	1.99	0.15
12	ABO12	⁵⁹ 0.98	0.11	-1.95	0.24	-0.51	0.13	1.48	0.18	2.85	0.32
13	ABO13	⁶⁴ 1.87	0.16	-1.24	0.12	-0.19	0.08	0.79	0.08	1.91	0.15
14	ABO14	⁶⁹ 2.00	0.17	-0.84	0.10	0.01	0.07	1.11	0.09	2.04	0.16
15	ABO15	⁷⁴ 1.11	0.12	-1.01	0.15	0.08	0.10	1.67	0.18	3.11	0.34

Summed-Score Based Item Diagnostic Tables and χ^2 s for Group 1 [\(Back to TOC\)](#)

S-X² Item Level Diagnostic Statistics

Item	Label	χ^2	d.f.	Probability
1	ABO1	133.63	96	0.0067
2	ABO2	102.12	81	0.0564
3	ABO3	99.45	81	0.0800
4	ABO4	101.48	89	0.1722
5	ABO5	92.06	75	0.0879
6	ABO6	74.34	79	0.6280
7	ABO7	139.49	89	0.0005
8	ABO8	77.31	77	0.4694
9	ABO9	100.78	79	0.0497
10	ABO10	107.95	67	0.0011
11	ABO11	100.67	83	0.0907
12	ABO12	126.51	105	0.0750
13	ABO13	116.41	92	0.0436
14	ABO14	104.51	81	0.0404
15	ABO15	129.85	100	0.0240

Group Parameter Estimates [\(Back to TOC\)](#)

Group	Label	μ	s.e.	σ^2	s.e.	σ	s.e.
1	Group 1	0.00	-----	1.00	-----	1.00	-----

Summed Score to Scale Score Conversion Table [\(Back to TOC\)](#)

Summed Score	EAP[θx]	SD[θx]	Modeled Proportion
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Marginal reliability of the scaled scores for summed scores = 1.00000

Marginal fit (χ^2) and Standardized LD χ^2 Statistics for Group 1 [\(Back to TOC\)](#)

Item	Label	χ^2	Margin al									
			1	2	3	4	5	6	7	8	9	10
1	ABO1	0.2										
2	ABO2	0.6	9.3									
3	ABO3	1.0	4.4	7.7								
4	ABO4	0.7	9.6	2.2	6.2							
5	ABO5	2.2	3.1	4.6	2.8	2.3						
6	ABO6	2.5	2.1	3.9	1.6	3.9	7.8					
7	ABO7	1.5	3.1	7.2	3.3	2.5	9.5	4.3				
8	ABO8	1.6	4.0	4.1	4.8	4.4	4.8	3.8	4.4			
9	ABO9	1.8	7.2	8.2	7.1	4.3	3.5	4.3	6.6	2.4		
10	ABO10	0.0	9.7	9.3	10.4	7.4	6.2	6.8	4.1	10.0	5.8	
11	ABO11	2.1	3.5	3.8	1.1	3.8	1.9	4.0	7.4	10.4	0.9	4.6
12	ABO12	0.2	2.7	8.7	1.9	4.8	4.0	6.4	12.5	1.9	4.1	2.2
13	ABO13	1.3	1.5	3.5	3.3	1.7	2.5	2.8	2.9	4.6	4.6	5.3
14	ABO14	1.8	5.1	4.2	5.3	-0.8	4.7	1.8	5.0	5.9	3.5	3.0
15	ABO15	0.6	6.3	5.1	3.4	3.6	7.0	5.8	5.5	3.6	4.3	2.0

Item	Label	χ^2	Marginal			
			11	12	13	14
11	ABO11	2.1				
12	ABO12	0.2	3.3			
13	ABO13	1.3	6.4	8.0		
14	ABO14	1.8	7.0	4.0	8.2	
15	ABO15	0.6	1.3	12.8	4.3	4.7

Item Information Function Values for Group 1 at 15 Values of θ from -2.8 to 2.8 [\(Back to TOC\)](#)

θ :

Item	Lab el	-2.8	-2.4	-2.0	-1.6	-1.2	-0.8	-0.4	-0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8
1	AB O1	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22
2	AB O2	0.40	0.62	0.81	0.88	0.88	0.89	0.90	0.86	0.86	0.90	0.91	0.90	0.89	0.80	0.60
3	AB O3	0.26	0.45	0.67	0.83	0.89	0.90	0.90	0.85	0.81	0.84	0.89	0.90	0.89	0.86	0.73
4	AB O4	0.40	0.54	0.62	0.64	0.64	0.65	0.67	0.67	0.67	0.68	0.68	0.67	0.66	0.64	0.57
5	AB O5	0.24	0.55	1.06	1.50	1.55	1.53	1.66	1.68	1.68	1.58	1.51	1.56	1.26	0.72	0.33
6	AB O6	0.19	0.46	0.97	1.53	1.68	1.64	1.74	1.65	1.65	1.77	1.75	1.73	1.39	0.79	0.35
7	AB O7	0.17	0.33	0.58	0.87	1.07	1.12	1.13	1.12	1.12	1.13	1.13	1.10	0.97	0.71	0.42
8	AB O8	0.11	0.26	0.57	1.07	1.49	1.62	1.63	1.56	1.56	1.56	1.47	1.50	1.37	0.91	0.46
9	AB O9	0.26	0.46	0.72	0.93	0.98	0.98	1.01	1.01	0.98	1.00	1.03	1.01	1.00	0.93	0.72
10	AB O10	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06
11	AB O11	0.15	0.29	0.53	0.81	1.02	1.09	1.11	1.11	1.10	1.10	1.07	1.05	1.01	0.82	0.54
12	AB O12	0.21	0.24	0.27	0.28	0.29	0.29	0.29	0.29	0.28	0.28	0.29	0.29	0.29	0.28	0.27
13	AB O13	0.17	0.32	0.55	0.81	0.97	1.02	1.04	1.05	1.05	1.04	1.02	1.00	0.93	0.73	0.47
14	AB O14	0.08	0.16	0.32	0.59	0.90	1.12	1.19	1.18	1.15	1.15	1.18	1.17	1.11	0.90	0.59
15	AB O15	0.13	0.18	0.24	0.29	0.34	0.36	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.36	
Test																
Information		4.01	6.12	9.18	12.30	13.96	14.50	14.92	14.70	14.55	14.69	14.57	14.53	13.43	10.74	7.69
n:																
Expected		0.50	0.40	0.33	0.29	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.31	0.36	
s.e.:																

Marginal Reliability for Response Pattern Scores: 0.93

Likelihood-based Values and Goodness of Fit Statistics (Back to TOC)

Statistics based on the loglikelihood

-2loglikelihood: 16818.63

Akaike Information Criterion (AIC): 16966.63

Bayesian Information Criterion (BIC): 17271.20

Statistics based on the full item x item x ... classification

The table is too sparse to compute the general multinomial goodness of fit statistics.

Statistics based on one- and two-way marginal tables

M₂ statistics not available for this estimation method.

Summary of the Data and Control Parameters (Back to TOC)

Sample Size 453

Number of Items 15

Number of Dimensions 1

Item	Label	Categories	Model
1	ABO1	5	Graded
2	ABO2	5	Graded
3	ABO3	5	Graded
4	ABO4	5	Graded
5	ABO5	5	Graded
6	ABO6	5	Graded
7	ABO7	5	Graded
8	ABO8	5	Graded
9	ABO9	5	Graded
10	ABO10	4	Graded
11	ABO11	5	Graded
12	ABO12	5	Graded
13	ABO13	5	Graded
14	ABO14	5	Graded
15	ABO15	5	Graded

Parameter Estimation Control Values

Bock-Aitkin EM Algorithm

Maximum number of cycles: 500

Convergence criterion: 1.00e-005

Maximum number of M-step iterations: 50

Convergence criterion for iterative M-steps: 1.00e-006

Number of rectangular quadrature points: 49

Minimum, Maximum quadrature points: -6.00 6.00

SEM algorithm tolerance: 1.00e-003

Standard error computation algorithm: Supplemented EM

Miscellaneous Control Values

Print parameter numbers? Yes

Z tolerance, max. abs. logit value: 50.00

Number of processor cores used: 4

Number of cycles completed: 94

Maximum parameter change: 0.00e+000

Number of free parameters: 74

Processing times (in seconds)

E-step computations: 0.08

M-step computations: 0.15

Standard error computations: 0.38

Goodness-of-fit statistics: 0.03

Total: 0.63

Output Files

HTML results and control parameters: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-irt.htm

Convergence and Numerical Stability

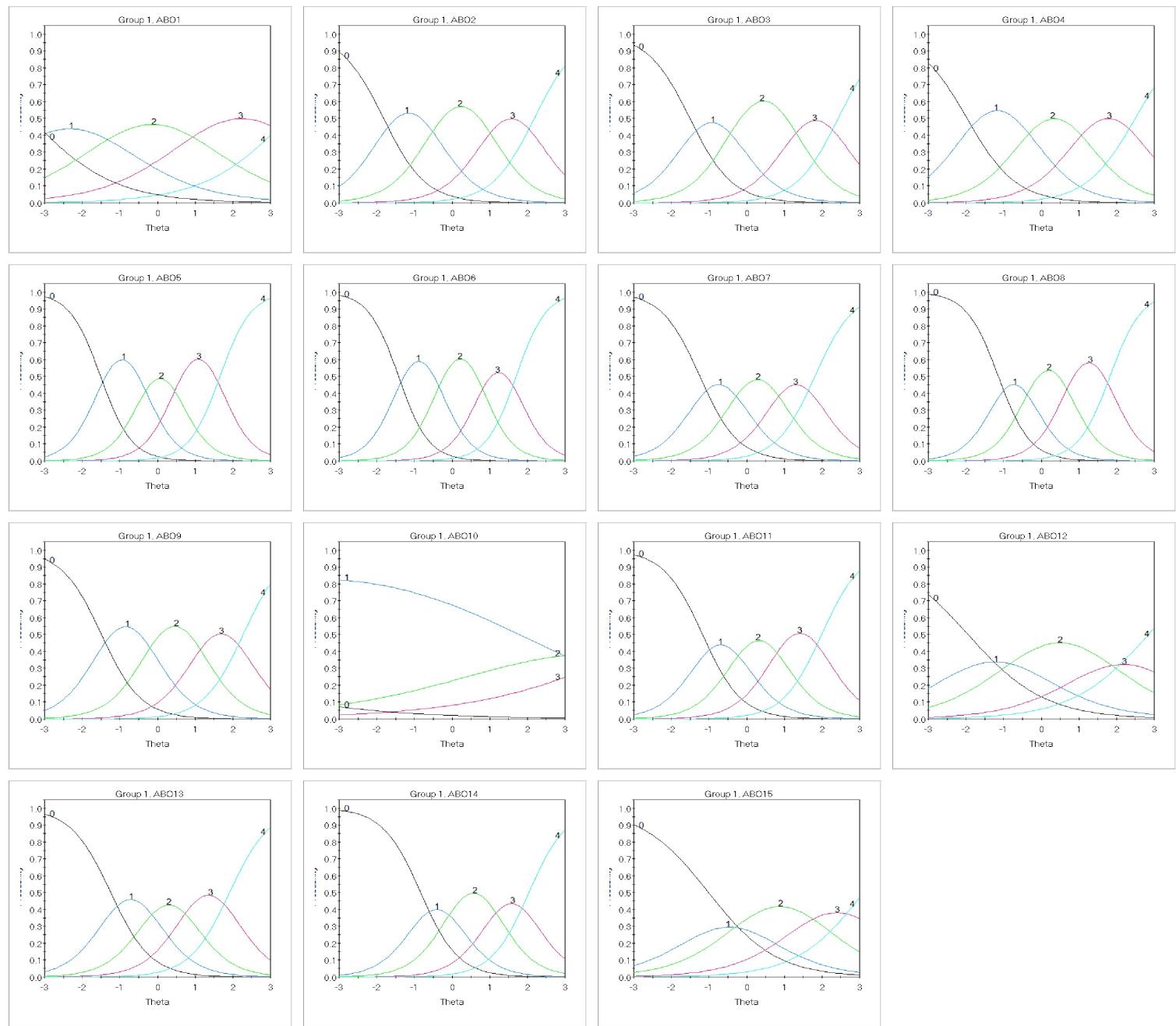
Engine status: Normal termination

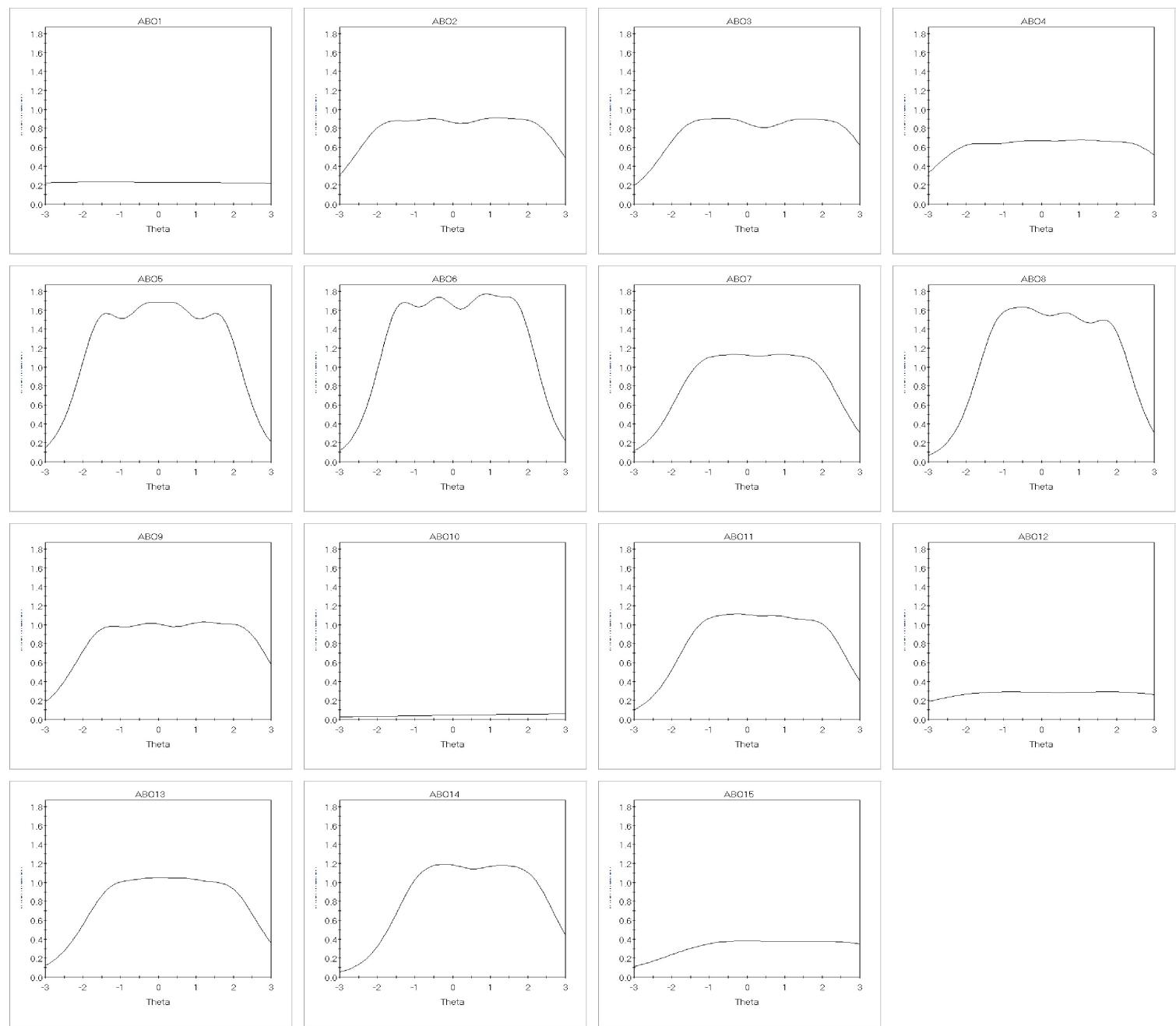
SEM algorithm status: Normal

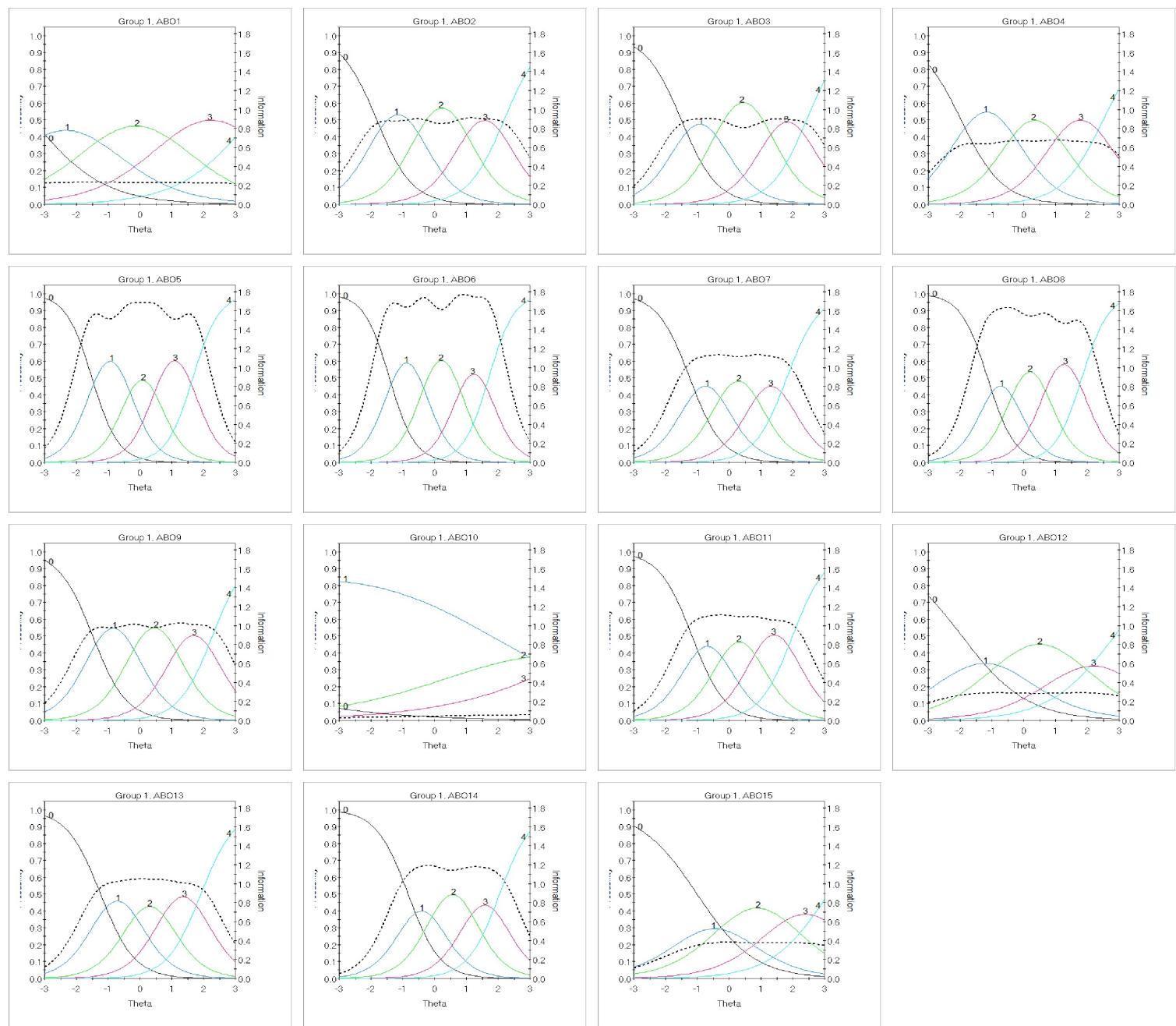
First-order test: Convergence criteria satisfied

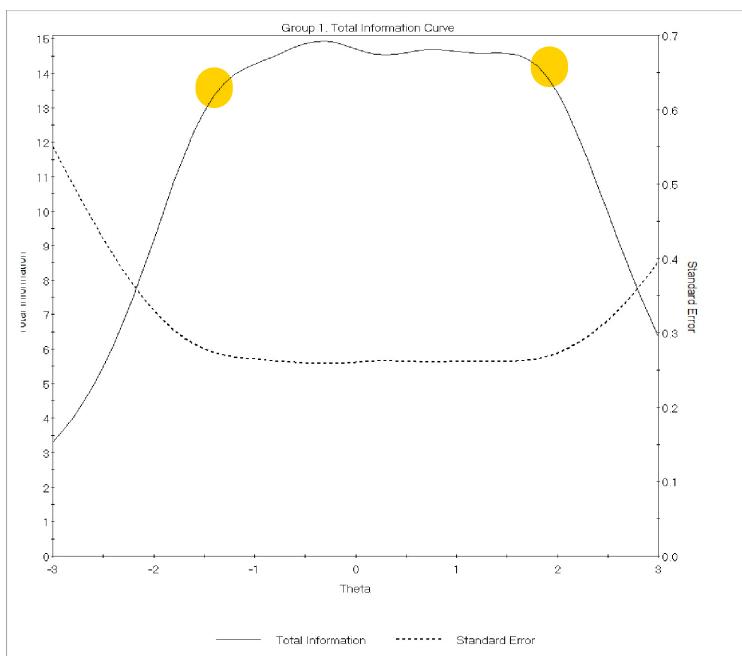
Condition number of information matrix: 8.55e+001

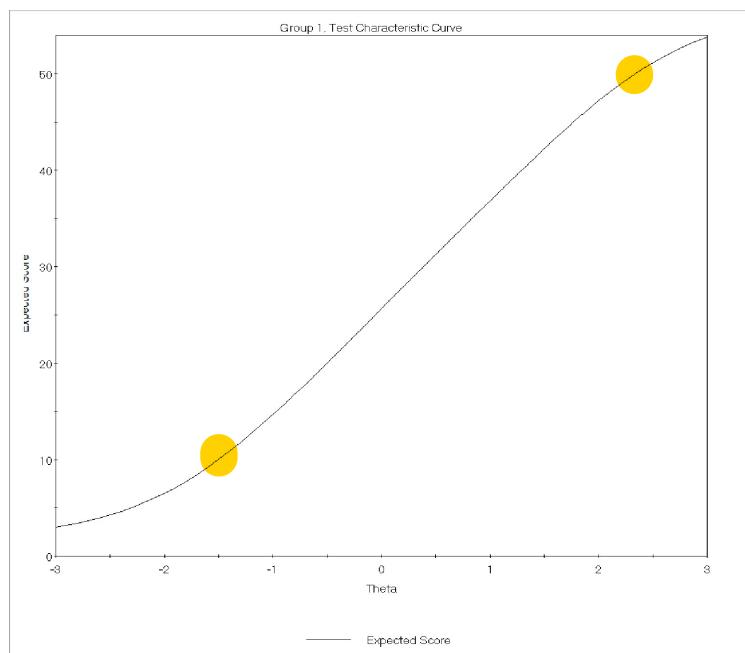
Second-order test: Solution is a possible local maximum











IRTPRO Version 4.2
Output generated by IRTPRO estimation engine Version 5.20 (64-bit)

Project:	Burnout Scale E-Sports
Description:	
Date:	05 February 2024
Time:	03:16 PM

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Graded Model Item Parameter Estimates, logit: $a\theta + c$

Item	Label	a	s.e.	c ₁	s.e.	c ₂	s.e.	c ₃	s.e.	c ₄	s.e.	
1	ABO1	5	0.89	0.11	1	3.00	0.21	2	1.13	0.12	3	-0.88
2	ABO2	10	1.79	0.15	6	3.25	0.23	7	0.88	0.14	8	-1.71
3	ABO3	15	1.77	0.15	11	2.67	0.20	12	0.61	0.14	13	-2.18
4	ABO4	20	1.53	0.14	16	3.02	0.21	17	0.56	0.13	18	-1.62
5	ABO5	25	2.43	0.20	21	3.67	0.27	22	0.90	0.17	23	-1.23
6	ABO6	30	2.51	0.21	26	3.57	0.27	27	0.86	0.17	28	-1.94
7	ABO7	35	1.96	0.17	31	2.44	0.19	32	0.49	0.15	33	-1.61
8	ABO8	40	2.36	0.20	36	2.69	0.22	37	0.75	0.16	38	-1.65
9	ABO9	45	1.89	0.16	41	2.82	0.21	42	0.37	0.14	43	-2.09
10	ABO10	49	0.44	0.11	46	3.87	0.32	47	-0.82	0.11	48	-2.43
11	ABO11	54	1.94	0.17	50	2.27	0.18	51	0.39	0.14	52	-1.62
12	ABO12	59	0.98	0.11	55	1.90	0.14	56	0.49	0.11	57	-1.45
13	ABO13	64	1.87	0.16	60	2.33	0.18	61	0.35	0.14	62	-1.48
14	ABO14	69	2.00	0.17	65	1.67	0.16	66	-0.03	0.14	67	-2.21
15	ABO15	74	1.11	0.12	70	1.13	0.12	71	-0.09	0.11	72	-1.86

Graded Model Item Parameter Estimates for Group 1, logit: $a\theta + b$ (Back to TOC)

Item	Label	a	s.e.	b ₁	s.e.	b ₂	s.e.	b ₃	s.e.	b ₄	s.e.
1	ABO1	5	0.89	0.11	-3.39	0.41	-1.27	0.19	0.99	0.16	3.46
2	ABO2	10	1.79	0.15	-1.82	0.16	-0.49	0.09	0.96	0.09	2.18
3	ABO3	15	1.77	0.15	-1.51	0.14	-0.34	0.08	1.23	0.11	2.43
4	ABO4	20	1.53	0.14	-1.97	0.18	-0.37	0.09	1.06	0.11	2.50
5	ABO5	25	2.43	0.20	-1.51	0.13	-0.37	0.07	0.51	0.07	1.66
6	ABO6	30	2.51	0.21	-1.42	0.12	-0.34	0.07	0.77	0.07	1.70
7	ABO7	35	1.96	0.17	-1.24	0.12	-0.25	0.08	0.82	0.08	1.81
8	ABO8	40	2.36	0.20	-1.14	0.11	-0.32	0.07	0.70	0.07	1.82
9	ABO9	45	1.89	0.16	-1.49	0.14	-0.20	0.08	1.10	0.10	2.28
10	ABO10	49	0.44	0.11	-8.84	2.27	1.87	0.49	5.54	1.39	
11	ABO11	54	1.94	0.17	-1.17	0.12	-0.20	0.08	0.84	0.08	1.99
12	ABO12	59	0.98	0.11	-1.95	0.24	-0.51	0.13	1.48	0.18	2.85
13	ABO13	64	1.87	0.16	-1.24	0.12	-0.19	0.08	0.79	0.08	1.91
14	ABO14	69	2.00	0.17	-0.84	0.10	0.01	0.07	1.11	0.09	2.04
15	ABO15	74	1.11	0.12	-1.01	0.15	0.08	0.10	1.67	0.18	3.11

Factor Loadings for Group 1 (Back to TOC)

Item	Label	λ_1	s.e.
1	ABO1	0.46	0.07
2	ABO2	0.72	0.05
3	ABO3	0.72	0.05
4	ABO4	0.67	0.06
5	ABO5	0.82	0.04
6	ABO6	0.83	0.04
7	ABO7	0.76	0.05
8	ABO8	0.81	0.04
9	ABO9	0.74	0.05
10	ABO10	0.25	0.10
11	ABO11	0.75	0.05
12	ABO12	0.50	0.07
13	ABO13	0.74	0.05
14	ABO14	0.76	0.05
15	ABO15	0.55	0.07

Summed-Score Based Item Diagnostic Tables and χ^2 's for Group 1 (Back to TOC)

Item	Label	χ^2	d.f.	Probability
1	ABO1	133.63	96	0.0067
2	ABO2	102.12	81	0.0564
3	ABO3	99.45	81	0.0800
4	ABO4	101.48	89	0.1722
5	ABO5	92.06	75	0.0879
6	ABO6	74.34	79	0.6280
7	ABO7	139.49	89	0.0005
8	ABO8	77.31	77	0.4694
9	ABO9	100.78	79	0.0497
10	ABO10	107.95	67	0.0011
11	ABO11	100.67	83	0.0907
12	ABO12	126.51	105	0.0750
13	ABO13	116.41	92	0.0436
14	ABO14	104.51	81	0.0404
15	ABO15	129.85	100	0.0240

Item 1 S- χ^2 (96) = 133.6, p = 0.0067 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	0.8	0	0.8	0	0.4	0	0.1	0	0.0
1	2	4	0.7	1.5	0	0.8	1.7	0.4	0	0.0
2	0	0.3	1	0.4	0	0.2	0	0.0	0	0.0

3	7	7.2.6	2.9.2	3.4.3	4.7.1	1.2.5	3.5.0	0.5	0	0.1
4	0	0.7		1	1.3.1	0.8	1	0.2	0	0.0
5	0	0.2	1	0.4	0	1.0.3	1.1.0	0.1	0	0.0
6	0	0.6	1.5.2	3.1.2	1.6.0	1.0	1	2.0.2	1.2.0	0.0
7	0	0.3	0	0.8	1	1.0.7	1.6.1	0.2	0	0.0
8	0	0.9	1.3.1	1.2.3	3.1	4	2.1.1	0.6	0	0.1
9	1	1.0		1	2.6	5	2.6.0	2.0.7	1.4.0	0.1
10	1	2.0.9	1.9	2	2.5	4	2.7.0	0.8	0	0.1
11	1	1.0		2	2.8	3	3.2.2	2.0.9	1.7.0	0.1
12	1	2.0.9	1.9	4	2.7	2	3.3	1	1.0.0	0.2
13	1	1.1		2	3.5	7	4.6	1	1.5.0	0.2
14	2	1.2	5	4.0	5	5.5	1	1.9.0	0.3	
15	0	0.1.3	2.0	5	4.5	7	6.5	2	2.3.1	0.4
16	0	0.7		2	2.3	5	3.5	1	1.3.0	0.2
17	0	1.0	3	3.5	7	5.8	3	2.3.0	1.0.4	1.2
18	0	2.0.9	1.7	1	3.4	6	5.9	5	2.4.1	0.4
19	2	0.7		4	2.7	2	5.0	3	2.2.0	0.4
20	0	0.0.7	1.4	2	2.9	6	5.5	3	2.5.1	2.0.4
21	0	0.6		3	2.5	4	5.0	3	2.4.1	0.4
22	4	1.4	3	5.4	11	11.4	6	5.8.1	2.1.0	1.4
23	0	0.1.0	1.5	6	3.9	8	8.7	3	4.6.2	0.8
24	0	0.6		2	2.3	4	5.5	5	3.1.1	3.0.6
25	0	1.0.8	1.2	3	3.5	10	8.6	5	5.1.1	3.1.0
26	1	0.4		1	1.7	4	4.5	2	2.8.2	0.5
27	0	1.1	3	5.0	23	13.4	4	8.8	0	1.8
28	0	0.6	1.5	4	2.7	9	7.5	4	5.2	0
29	0	0.9		3	3.8	12	11.3	9	8.3	2
30	0	2.0.7	1.7	4	3.1	9	9.4	9	7.3	0
31	1	0.4		2	1.7	5	5.5	4	4.5.1	3.1.0
32	0	0.3		4	1.5	3	4.9	3	4.3.2	1.0
33	1	0.3	6	8.1.4	2.4	2	4.8	2	4.4.1	1.1.1
34	0	2.0.2	1.1.2	1.0		6	3.5	1	3.4.0	0.9
35	1	0.2	3	3.1.1	1.9	3	4.2	3	4.3.1	1.1.1
36	0	0.2	0	0.8		1	3.0	7	3.2.0	0.9
37	0	0.1	0	1.0.6	1.6	0	2.5	5	2.9.2	4.0.8
38	1	0.1	1	0.7		2	2.8	2	3.4.2	1.0
39	0	0.1	0	0.3		0	1.3	3	1.8.1	3.0.5
40	0	0.1	0	1.0.3	1.2.1	2.1.3	1.9.1	2	2.7.2	0.6
41	0	0.0	0	0.1	1	0.6	1	0.9	0	0.3
43	0	0.0	0	0.2		2	1.1	2	1.9.0	0.0.7
44	0	0.0	0	0.1	1	2.0.5	1.5.1	2	1.0	1.4.0
45	0	0.0	0	0.0	0	0.3	1	0.5	0	0.2
46	0	0.0	1	0.1	1	0.7	1	3.1.5	2.4.0	0.0.7
47	0	0.0	0	0.1	0	0.4	1.2.2	1.0	0	0.5
48	0	0.0	0	0.1	0	0.4	1	2.1.0	1.9.1	2.0.5
50	0	0.0	0	0.0	0	0.2	1	0.5	0	0.3
52	0	0.0	0	0.0	0	0.1	0	0.5	1	0.4

Item 2 S-X²(81) = 102.1, p = 0.0564 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.7.0	0.3	0	0.0	0	0.0	0	0	0.0
1	2	1.6.0	0.3	0	0.0	0	0.0	0	0	0.0
3	8	5.4.0	0.2.2	2.8.0	0.4	0	0.0	0	0	0.0
4	2	2.4	1	1.3.1	0.2	0	0.0	0	0	0.0
5	1	1.1.1	0.7	0	0.2	0	0.0	0	0	0.0
6	0	0.5	1	2.0.4	1.2.0	0.1	0	0.0	0	0.0
7	2	2.0.9	1.3.0	0.9	0	1.0.2	1.2.0	0.0	0	0.0
8	0	1.9.3	3.2.4	3.2.1	0.7	1	0.1	0	0	0.0
9	1	2.6	5	3.9.2	3.1.3	2.0.0	0.1	0	0	0.0
10	1	2.6	4	4.5	3	1.7.1	0.2	0	0	0.0
11	2	1.8	4	3.5	1	1.5.0	0.2	0	0	0.0
12	0	1.3	4	3.0	2	1.5.0	0.2	0	0	0.0
13	2	1.3	4	3.5	1	1.9.0	0.2	0	0	0.0
14	2	2.3	10	6.8	2	4.3.0	2.0.5	1.5.0	0.1	
15	2	1.8	8	5.6	2	4.0.0	0.5	0	0.1	
16	1	1.5	7	5.4	2	4.4.2	2.0.6	1.1.0	0.1	
17	1	1.3	7	5.2	3	4.7.1	0.7	0	0.1	
18	1	1.1	4	4.5	4	4.6.0	1.0.7	1.4.2	0.1	
19	3	3.1.5	2.1	8	6.9	6	8.0	1	1.4.0	0.2
20	0	0.7		3	3.2	7	4.2.0	0.8	0	0.1
21	1	2.1.2	2.1	6	6.3	7	9.3.4	4.1.9	2.7.1	3.0.3
22	1	0.9		2	5.2	13	8.6	1	1.9.0	0.3
23	1	1.0.5	1.4	4	3.1	5	5.7	1	1.4.0	0.2
24	0	0.9		9	5.4	9	11.2	3	3.1.0	0.0.5
25	1	2.0.6	1.1	1	3.7	10	8.7	4	2.6.0	0.4
26	1	0.5		5	3.6	6	9.3	5	3.1.0	0.5
27	0	0.7	1.7	3	5.3	22	15.2	3	5.7.0	0.1.0
28	0	0.6		3	4.2	13	13.5	7	5.7	2
29	0	0.4		1	3.1	11	11.2	6	5.3	3
30	1	6.0.3	1.2	2	2.6	10	10.4	7	5.5	0
31	1	0.2		1	1.6	8	7.1	3	4.2	1.0.9
32	1	0.2	1	1.5	2.2	10	7.3	3	4.8.0	1.1.1
33	2	0.1	0	0.7		3	3.7	2	2.8.1	0.7
34	0	0.1		2	1.2	10	6.6	3	5.6.0	1.1.5
35	0	0.0	1	1.0.4	1.1	1	2.5	3	2.4.1	0.7
36	0	0.0	0	0.4		1	2.3	4	2.5.1	2.0.8
37	0	0.0	0	0.3		3	2.2	2	2.6.1	0.9
38	1	0.0	1	1.0.4	1.0	4	3.0	2	4.0.1	2.1.5
39	0	0.0	0	0.2		1	1.5	3	2.3.1	1.0
40	0	0.0	0	0.2		2	1.9.2	4.3.3	4.2.3	3.1.5
42	0	0.0	0	0.0	0	0	0.4	1.2.2	0.9	0.6
43	0	0.0	0	0.1	0	0.8	3	4.1.9	2.8.1	2.1.3
44	0	0.0	0	0.0	0	0.3	1.2.1	0.9	1	0.7
45	0	0.0	0	0.0	0	0.3	1	1.0.9	1.7.1	3.0.8
46	0	0.0	0	0.0	0	0.3	0	0.8	2	0.9
48	0	0.0	0	0.0	0	0.2	1	1.0.7	1.3	1.1
49	0	0.0	0	0.0	0	0.1	0	0.3	1	2.0.6
52	0	0.0	0	0.0	0	0.0	0	0.2	1	0.7

Item 3 S-X²(81) = 99.5, p = 0.0800 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.8.0	0.2	0	0.0	0	0.0	0	0	0.0
1	2	1.7.0	0.2	0	0.0	0	0.0	0	0	0.0
3	8	6.2.0	0.1.5	1.8.0	0.3	0	0.0	0	0	0.0
4	2	1.5.0	0.4	0	0.1	0	0.0	0	0	0.0
5	2	2.0.1	1.0.8	1.2.0	0.2	0	0.0	0	0	0.0
6	1	1.2.1	0.6	0	0.2	0	0.0	0	0	0.0
7	2	1.7.0	1.0	1.6.1	1.0.3	1.0.0	0.0	0.0	0	0.0
8	0	2.5	2	1.8.3	0.6	0	0.0	0	0	0.0
9	1	2.3	3	2.0.1	4.0.7	1.2.0	0.0	0	0	0.0
10	1	1.7	2	1.7.1	0.6	0	0.0	0	0	0.0
11	6	5.2	5	6.1.3	4.2.5	3.2.0	0.2	0	0	0.0
12	1	1.3	2	1.8.1	0.8	0	0.1	0	0	0.0
13	3	2.6	3	4.1.3	4.2.1	2.9.0	0.2	0	0	0.0

14	4	4.2	7	7.2	5	4.2 0	0.4	0	0.1
15	3	2.5	5	4.9	2	3.2 1	1 0.3	1.3 0	0.0
16	1	2.0	7	4.4	1	3.2 1	0.3	0	0.0
17	1	1.6	6	3.9	1	3.2 1	0.3	0	0.0
18	2	1.7	6	4.5	3	4.2 0	2 0.5	1.1 0	0.1
19	4	2.4	5	6.7	6	6.9 2	0.8	0	0.1
20	4	1.6	3	4.9	5	5.7 1	3 0.7	1.6 0	0.1
21	0	1.9	8	6.4	7	8.3	3	1.2 0	0.2
22	2	2 1.6	2.5	5.7	10	8.3	3	1.3 0	0.2
23	0	0.9	6	3.4	4	5.6 1	0.9	0	0.1
24	2	1.1	7	4.6	6	8.5 1	2 1.6	2.5 0	0.2
25	3	4 1.2	1.8	5.0	11	10.4	1	2.1 0	0.3
26	1	0.6	6	2.9	4	6.7	1	1.5 0	0.2
27	0	1.8	8	8.5	28	22.2	2	5.5 1	1 0.9
28	0	0 0.8	1.5	1	11	10.9	6	3.0 1	0.5
29	0	0.7	4	3.6	11	11.6	4	3.5 1	2 0.6
30	1	1 0.6	1.2	3.0	12	11.0	3	3.7 0	1.7
31	0	0.6	3	3.3	13	13.1	4	5.0 3	1.0
32	0	2 0.3	1.1	1.5	8	6.7	1	2.9 0	0 0.6
33	1	0.2	1	1.1	2.1	5	5.5	3	2.6 0
34	0	0.2	0	1.0	9	5.3	1	2.9 0	1 0.7
35	0	0.1	1	1 0.8	1.6	4	4.6	3	2.8 1
36	0	0.1	0	0.5	1	3.4	6	2.4 0	0 0.6
37	0	0.1	0	0.3	2	2.3	3	1.8 0	0.5
38	1	0.1	0	0 0.6	1.3	4	4.4	3	3.8 2
39	0	0.0	0	0.2	1	2.0	3	2.0 1	0.7
40	0	0.0	0	0.2	1	2 1.9	2.5 2	3 2.1	2 0.8
42	0	0.0	0	0.1	1	0.6	1	0.9	0.4
43	0	0.0	0	0.1	1	3 0.8	1.4 1	1 1.4	2.3 1
44	0	0.0	0	0.0	2	0.5	0	0.9	0.5
45	0	0.0	0	0.1	1	3 0.7	1.7 1	1 1.4	2.3 1
46	0	0.0	0	0.0	1	0.4	0	0.9	0.7
48	0	0.0	0	0.0	1	0.4	1	1.2	1.9
49	0	0.0	0	0.0	0	0.1	0	0.4	1
52	0	0.0	0	0.0	0	0.1	0	0.3	1.1

Item 4 S-X²(89) = 101.5, p = 0.1722 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.5 0	0.4	0	0.1	0	0.0	0.0	0	0.0
1	2	1.5 0	0.5	0	0.1	0	0.0	0	0	0.0
2	0	0.7	1	1 0.3	1.2 0	0.0	0	0.0	0	0.0
3	7	7 4.2	4.9	0	2.4 0	0.4	0	0.0	0	0.0
4	2	1.1 0	0.8	0	0.1	0	0.0	0	0	0.0
5	2	1.0	0	0 0.8	1.6 0	0.2	0	0.0	0	0.0
6	2	4 1.3	2.3	1	1.4 0	0 0.3	1.1 0	0.0	0	0.0
7	2	0.8	0	1.0	0	0.2	0	0.0	0	0.0
8	0	2 0.7	1.4 2	2 1.0	2.0 0	0.3	0	0.0	0	0.0
9	2	2.7	6	4.6 1	1 1.4	1.9 0	0.2	0	0.0	0.0
10	1	2.7	6	5.2	3	1.8 0	0.3	0	0.0	0.0
11	2	1.7	4	3.7	1	1.4 0	0.2	0	0	0.0
12	0	1.9	6	4.7	3	2.0 0	0 0.3	1.2 0	0.0	0.0
13	1	1.5	2	4.2	5	2.0 0	0.3	0	0	0.0
14	3	1.8	5	5.6	2	3.0 1	0.5	0	0.1	0.0
15	3	2.2	9	7.5	3	4.4 0	1 0.8	1.7 0	0.1	0.0
16	0	1.4	5	5.3	5	3.5 0	0.7	1	0.1	0.0
17	1	1.2	4	4.7	5	3.4 0	0 0.7	1.4 0	0.1	0.0
18	1	1.4	5	6.3	6	5.0	2	1.1 0	0.2	0.0
19	2	3 1.1	2.1	5	5.1	3	4.6	2	1.1 0	0.2
20	1	1.0	3	4.9	6	4.8	2	1.2 0	1 0.2	1.1
21	1	2 1.0	2.0	8	5.4	3	5.9	2	1.6 0	0.2
22	1	1.0	4	5.4	8	6.5	2	1.9 0	0.3	0.0
23	1	2 1.1	1.9	10	6.7	7	9.0	2	2.8 0	0.4
24	1	0.8	7	5.0	4	7.4	4	2.4 0	0 0.4	1.3
25	1	1 0.7	1.4	6	4.9	7	8.0	3	2.9 0	0.5
26	0	0.7	6	4.8	6	8.6	4	3.3 2	2 0.6	1.0
27	1	1.2	4	8.9	25	17.3	5	7.3	1	1.3
28	0	1 0.5	1.5	1	4.1	10	8.7	4	4.0 3	0.7
29	0	0.4	0	3.1	11	7.2	3	3.6 1	4 0.7	1.4
30	1	0.5	5	4.1	11	10.4	5	5.8	0	1.1
31	0	1 0.4	1.4	3	3.4	10	9.3	7	5.7	0
32	0	0.2	5	1.8	4	5.5	2	3.7 1	1 0.8	1.7
33	0	0.2	2	2 1.1	1.4	2	4.1	3	3.8 1	5 0.9
34	0	0.2	3	1.4	4	4.7	3	3.7 4	0 0.3	1.9
35	0	0.1	2	2 1.1	1.4	2	4.1	2	3.7 4	0.9
36	0	0.0	0	0.3	1	1.2	2	1.2 0	0 0.3	1.3
37	0	0.1	0	1 0.7	1.2	2	3.0	6	3.3 0	1.0
38	1	0.0	1	0.5	1	2.1	2	2.6 1	1 0.8	1.6
39	0	0.0	0	2 0.3	1.3	2	1.6	3	2.2 0	0.8
40	0	0.0	0	0.4	1	2 1.8	2.7	2 2.3	4 1.0	1.6
41	0	0.0	1	0.2	1	0.8	0	1.4 1	0.6	0.0
43	0	0.0	0	0.2	1	1 0.9	1.2 2	3 1.9	2.4 1	1 1.0
44	0	0.0	0	0.0	0	0.2	1	0.5	0	0.3
45	0	0.0	1	0.1	0	2 0.6	1.4 2	3 1.4	1.9 0	0 0.9
46	0	0.0	0	0.0	0	0.2	1	0.5	0	0.3
47	0	0.0	0	0.0	0	0.3	1	1 0.9	1.3 1	1 0.8
48	0	0.0	0	0.0	1	0.1	0	0.4	0	0.4
50	0	0.0	0	0.0	1	0.2	1	1 0.8	1.1 0	1 1.0
52	0	0.0	0	0.0	0	0.1	0	0.3	1	0.6

Item 5 S-X²(75) = 92.1, p = 0.0879 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.9 0	0.1	0	0.0	0	0.0	0.0	0	0.0
1	2	1.8 0	0.1	0	0.0	0	0.0	0	0	0.0
3	8	6.7 0	0 1.2	1.5 0	0.1	0	0.0	0	0	0.0
4	2	2.3 1	0.6	0	0.1	0	0.0	0	0	0.0
5	1	0.7	0	0.3	0	0.0	0	0.0	0	0.0
6	2	3 2.6	3.3 2	3 1.2	2 1.0	0.1	0	0.0	0	0.0
7	1	0.6	0	0.4	0	0.0	0	0.0	0	0.0
9	4	5 3.1	3.7 3	3 3.2	3.6 0	0.6	0	0.1	0	0.0
10	4	5.4	6	7.0 4	4 1.4	2.3 0	0.2	0	0.0	0.0
11	3	2.0	1	3.2 2	0.7	0	0.1	0	0	0.0
12	2	1.7	2	3.3 2	4 0.9	1.6 0	0.1	0	0	0.0
13	4	2.6	4	6.1	2	1.9 1	0.3	0	0	0.0
14	2	2.8	11	7.7	0	2.9 1	2 0.5	1.5 0	0.0	0.0
15	0	0 2.2	3.0	10	7.1	2	3.1 1	0.6	0	0.0
16	0	0.8	4	3.2	2	1.6 0	0.4	0	0.0	0.0
17	3	1.6	7	7.1	3	4.2 1	2 1.0	2.0 0	0.1	0.0
18	0	1.2	7	5.7	3	4.0	1	1.1 1	0.1	0.0
19	2	5 1.4	2.2	6	7.6	5	6.1	4	1.8 0	0.1
20	3	0.9	3	5.3	4	5.0	3	1.6 0	0.1	0.0
21	0	0 0.8	1.6	8	5.2	2	5.7	4	2.1 0	0.2
22	0	0.8	4	6.4	9	8.1	6	3.3 0	1 0.3	1.1
23	1	1 0.7	1.2	8	5.7	5	8.3	5	3.9 0	0.4
24	0	0.5	6	4.3	5	7.1	4	3.8 1	0.4	0.0

25	0	0	0.4	1.1	2	4.2	10	8.0	5	4.8	1	2	0.5	1.3
26	0	0	0.2		4	2.2	4	4.8	3	3.4	0	0	0.4	
27	0	0	0.5		2	5.2	22	12.8	6	10.2	0	0	1.3	1.7
28	1	2	0.3	1.1	4	3.5	10	9.8	8	9.1	1	1	1.3	
29	0	0	0.3		2	3.3	10	10.0	11	10.7	3	3	1.7	
30	0	0	0.2		3	2.2	8	7.6	8	9.4	2	2	1.7	
31	0	0	0.1		0	1.3	7	5.0	6	7.2	2	2	1.4	
32	0	0	0.1		2	2.10	1.9	5	4.2	7	7.1	0	1	1.6
33	1	0.0	0		0	0.5	0	2.2	6	4.2	1	1	1.1	
34	0	0	0.0		0	0.4	5	2.2	3	4.9	1	1	1.5	
35	0	0	0.0		2	2.02	1.1	1	1.3	2	3.3	1	1	1.2
36	0	0	0.0		0	0.4	2	2.20	2.9	8	6.1	1	1	2.5
37	0	0	0.0		0	0.2	0	0.9	4	3.3	2	2	1.6	
38	0	0	0.0		0	0.1	2	3.08	1.4	1	3.2	3	1	1.8
39	0	0	0.0		0	0.1	1	0.6	3	2.6	1	1	1.7	
40	0	0	0.0		0	0.1	0	0.5	1.12	2.25	2.93	4	2.0	2.4
41	0	0	0.0		0	0.0	0	0.1	0	0.5	1	0.4		
42	0	0	0.0		0	0.0	0	0.2	1	1.3	2	1	1.5	
43	0	0	0.0		0	0.0	0	0.2	1	1.2	2.2	2	1	1.7
44	0	0	0.0		0	0.0	0	0.1	0	0.7	0	2	1.2	
45	0	0	0.0		0	0.0	0	0.0	0	0.3	1	2	0.7	1.4
46	0	0	0.0		0	0.0	0	0.0	0	1.03	1.11	0.7		
47	0	0	0.0		0	0.0	0	0.0	1	0.4	1	2	1.5	2.3
48	0	0	0.0		0	0.0	0	0.0	0	0.2	1	0.8		
49	0	0	0.0		0	0.0	0	0.0	0	0.1	1	2	0.8	1.8
50	0	0	0.0		0	0.0	0	0.0	0	0.1	1	0.9		

Item 6 S-X ² (79) = 74.3 , p = 0.6280 (Back)															
Score	Category 0			Category 1			Category 2			Category 3			Category 4		
	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	
0	2	1.90	0.1	0	0.0	0	0.0	0	0.0	0	0	0.0	0	0.0	
1	2	1.90	0.1	0	0.0	0	0.0	0	0.0	0	0	0	0	0.0	
3	8	6.90	0.10	1.20	0.1	0.1	0	0	0.0	0	0	0	0	0.0	
4	2	2.51	0.5	0	0.0	0	0	0	0.0	0	0	0	0	0.0	
5	1	0.8	0	0.2	0	0.0	0	0	0.0	0	0	0	0	0.0	
6	2	3.14	2.20	1.05	1.20	0.1	0.1	0	0.0	0	0	0	0	0.0	
7	3	1.90	1.0	0	0	0.1	0	0	0.0	0	0	0	0	0.0	
8	0	1.12	2.08	1.70	1.70	0.1	0	0	0.0	0	0	0	0	0.0	
9	2	2.0	2	1.70	1.70	0.3	0	0	0.0	0	0	0	0	0.0	
10	5	4.3	3	4.62	2.10	1.70	0.1	0	0.1	0	0	0	0	0.0	
11	6	3.8	2	5.0	2	1.20	0.1	0	0.1	0	0	0	0	0.0	
12	3	2.6	3	4.2	2	1.20	0.1	0	0.1	0	0	0	0	0.0	
13	3	3.3	5	6.4	3	2.11	0.2	0	0.0	0	0	0	0	0.0	
14	1	3.0	9	7.0	3	2.70	0.2	0	0.2	0	0	0	0	0.0	
15	1	1.9	6	5.4	3	2.40	0.2	0	0.2	0	0	0	0	0.0	
16	1	1.8	6	5.8	4	3.10	0.3	1	0.3	1.20	0.0	0	0	0.0	
17	1	1.4	5	5.1	3	3.21	0.4	0	0	0	0	0	0	0.0	
18	1	1.5	8	6.3	3	4.71	0.6	0	0	0	0.1	0	0	0.1	
19	1	1.3	7	6.3	3	5.53	0.7	1.70	0.1	0	0	0	0	0.1	
20	2	1.1	4	5.9	8	6.10	0.9	0	0	0	0.1	0	0	0.1	
21	1	1.09	1.8	6	5.4	4	6.52	2.11	2.01	0	0	0	0	0.1	
22	0	0.9	6	6.2	9	8.9	3	1.70	2.00	1.03	1.20	0	0	0.2	
23	0	1.07	1.2	9	5.0	5	8.3	1	1.81	2.02	1.11	1.1	0	0.1	
24	1	0.5		4.1	5	8.1	1	2.00	2.00	0	0	0.3	0	0.3	
25	0	1.06	1.5	5	5.5	13	12.7	4	3.61	3.61	0	0.5	0	0.5	
26	1	0.3		3	2.5	6	6.7	2	2.20	2.20	1.03	1.20	0	0.1	
27	0	0.6		3	5.7	24	17.7	5	6.8	6.8	0	1.1	0	1.1	
28	0	2.04	1.2	3	3.8	11	13.6	9	6.1	6.1	2	1.1	1.1	1.1	
29	0	0.2		2	2.7	11	11.1	6	5.8	5.8	2	1.1	1.1	1.1	
30	0	0.2		1	1.9	10	9.1	7	5.6	5.6	0	1.2	1.2	1.2	
31	0	0.1		1	1.6	11	8.6	6	6.2	6.2	0	1.4	1.4	1.4	
32	1	0.1	1	1.0	1.6	7	5.8	4	4.9	4.9	0	1.3	1.3	1.3	
33	0	0.1	0	0.7	3	4.5	6	4.5	2	4.5	2	1.3	1.3	1.3	
34	0	0.1	2	3.06	1.6	7	4.9	1	5.6	5.6	3	1.8	1.8	1.8	
35	0	0.0	0	0.2	2	1.7	2	2	2.3	2.3	1	0.8	0.8	0.8	
36	0	0.0	0	0.2	0	0	0	0	0	0	0	0	0	0.0	
37	0	0.0	0	0.2	2	1.8	4	3.3	1	1.6	1.6	1	1.6	1.6	
38	0	0.0	1	0.1	2	1.6	0	0	0	0	0	4	1.9	1.9	
39	0	0.0	0	0.1	3	1.2	1.8	2	2.8	2.8	1	1.9	1.9	1.9	
40	0	0.0	0	0.1	0	0	0.7	2	1.8	1.8	2	1.5	1.5	1.5	
41	0	0.0	0	0.0	0	0	0.1	1	1.2	1.2	2	1.4	1.4	1.4	
42	0	0.0	0	0.0	0	0	0.0	0	1	1.5	1.5	2	2.1	2.1	
43	0	0.0	0	0.0	1	0.4	0	0.1	1	1.5	1.5	2	2.1	2.1	
44	1	0.0	0	0.0	0	0	0.1	0	0	1.07	1.3	1	1.2	1.2	
45	0	0.0	0	0.0	0	0	0.1	1	0.6	0.6	1	2	1.3	2.0	
46	0	0.0	0	0.0	0	0	0.0	0	0	1.03	1.11	0.7	0	0.7	
47	0	0.0	0	0.0	0	0	0.1	1	0.4	0.4	1	2	1.5	2.3	
48	0	0.0	0	0.0	0	0	0.0	0	0	0.2	1	0.8			
49	0	0.0	0	0.0	0	0	0.0	0	0	0.1	1	2	0.8	1.8	
50	0	0.0	0	0.0	0	0	0.0	0	0	0.1	1	0.9			

Item 7 S-X ² (89) = 139.5 , p = 0.0005 (Back)															
Score	Category 0			Category 1			Category 2			Category 3			Category 4		
	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	
0	2	1.90	0.1	0	0.0	0	0.0	0	0.0	0	0	0.0	0	0.0	
1	2	1.90	0.1	0	0.0	0	0.0	0	0.0	0	0	0	0	0.0	
3	8	7.81	1.10	1.20	0.2	0	0.0	0	0.0	0	0	0	0	0.0	
4	1	0.8	0	0.1	0	0.0	0	0.0	0	0	0	0	0	0.0	
5	2	3.16	2.40	0.3	0	0.1	0.1	0	0.0	0	0	0	0	0.0	
6	2	1.50	0.												

34	1	0.1	0	0.7	1	2.9	3	3.0	3	1.3
35	2	0.2	1	1.0	1.1	2	3.7	1	4.3	5 2.0 2.8
36	1	0.0	0	0.3	1	1.2	2	1.6	0	0.8
37	0	0.1	0	4.0	0.5	1.4	2	2.2	5	3.3 1 1.9
38	0	0.1	0	0.3	1	1.8	3	3.0	3	1.9
39	0	0.0	1	0.2	0	1.1	2	2.1	2	1.5
40	0	0.0	0	0.1	0	0.6	1.4	1	1.7	2 1.0 1.4
41	0	0.0	1	0.0	0	0.2	0	0.4	0	0.4
42	0	0.0	0	0.1	0	0.6	1	1.6	3	1.7
43	0	0.0	1	0.1	0	1.0	1.1	0	1.1	2 1.4
44	0	0.0	1	0.0	0	0.3	0	0.1	1.4	3 1.6 2.1
45	0	0.0	0	0.0	0	0.1	0	0.3	1	0.6
46	0	0.0	0	0.0	0	0.2	0	1.0	2	1.2
48	0	0.0	0	0.0	0	0.1	1	0.2	0	1 0.7 1.5
49	0	0.0	0	0.0	0	0.0	0	0.2	1	0.8
50	0	0.0	0	0.0	1	0.0	0	0.2	0	1 0.8 1.7
52	0	0.0	0	0.0	0	0.0	0	0.1	1	0.9

Item 8 S-X²(77) = 77.3 , p = 0.4694 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.9	0	0.0	0	0.0	0	0.0	0	0.0
1	2	1.9	0	0.1	0	0.0	0	0.0	0	0.0
3	8	7.4	0	0.5	0	0.1	0	0.0	0	0.0
4	2	1.8	0	0.2	0	0.0	0	0.0	0	0.0
5	2	3.4	1	1.0	1.3	1	0.1	0	0.0	0.0
6	1	1.6	1	0.3	0	0.1	0	0.0	0	0.0
7	1	1.5	0	0.4	1	0.1	0	0.0	0	0.0
8	0	0.7	1	0.2	0	0.1	0	0.0	0	0.0
9	2	2.3	2	4.0	1	3.1	2.3	0.4	0	0.0
10	6	4.7	2	2.4	0	4	0.7	1.6	0	0.1
11	5	5.4	4	3.4	1	1	1.1	0	0.1	0.0
12	3	3.8	3	2.9	1	1.1	1.1	0.1	0	0.0
13	4	4.7	4	4.2	3	1.8	0	0.2	0	0.0
14	3	2.6	2	2.8	2	1.4	0	0.2	0	0.0
15	7	5.3	5	6.6	2	3.6	2	3	0.5	1.4
16	4	3.1	4	4.5	1	2.9	1	0.4	1	0.0
17	4	3.4	6	5.7	4	4.1	0	1.0	1.1	0
18	1	2.5	5	4.8	6	3.9	0	0.7	0	0.1
19	2	2.0	5	4.2	2	4.0	2	2.0	1.5	0
20	1	1.8	5	4.3	2	4.7	3	1.0	1	0.1
21	2	2.2	10	5.7	3	7.2	2	1.8	0	0.2
22	3	2.1	2	6.2	13	8.9	2	2.5	0	0.2
23	2	1.2	5	4.0	6	6.5	1	2.0	0	1.0
24	0	1.1	6	3.8	8	7.2	1	2.6	0	0.3
25	3	3.1	2.1	3	4.8	11	10.3	4	4.1	0.4
26	0	0.8	5	3.0	7	7.4	3	3.4	0	0.4
27	1	1.2	2	5.1	23	14.2	3	7.5	0	0.9
28	0	0.9	1.4	4	4.0	11	12.5	10	7.6	1
29	0	0.5	3	2.5	8	8.9	7	6.2	1	0.9
30	1	4.0	6	1.5	3	2.8	9	11.1	10	9.1
31	0	0.3	3	5.1	2.5	6	6.7	6	6.3	1
32	0	0.2	2	1.0	5	4.7	3	5.2	2	1.0
33	2	0.2	0	0.9	1.4	4	4.7	7	6.0	0
34	0	0.1	0	0.5	4	3.0	4	4.4	1	3.1
35	1	0.0	0	1.0	0.3	1.2	1	1.8	2	3.0
36	0	0.1	0	0.4	2	2.6	6	5.2	2	1.7
37	0	0.0	0	0.2	0	0.14	2.0	5	3.2	1
38	0	0.0	1	0.1	0	0.6	1	1.6	1	0.7
39	0	0.0	0	0.1	2	3.1	1.6	4	3.2	0
40	0	0.0	0	0.1	1	0.6	2	2.1	1	1.2
41	0	0.0	0	0.1	1	1.0	2.5	2.5	3.0	1.8
42	0	0.0	0	0.0	0	0.1	0	0.5	1	0.4
43	0	0.0	0	0.0	0	0.3	0	1	1.8	1.1
44	0	0.0	0	0.0	0	0.1	0	1.0	1.1	0.5
45	0	0.0	0	0.0	0	0.1	1	0.7	1	1.1
46	0	0.0	0	0.0	0	0.1	0	0.7	2	1.3
47	0	0.0	0	0.0	0	0.0	0	0.3	1	0.7
48	0	0.0	0	0.0	0	0.0	0	0.2	1	1.4
49	0	0.0	0	0.0	0	0.0	0	0.2	1	2.0
52	0	0.0	0	0.0	0	0.0	0	0.1	1	0.9

Item 9 S-X²(79) = 100.8 , p = 0.0497 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.8	0	0.2	0	0.0	0	0.0	0	0.0
1	2	1.8	0	0.2	0	0.0	0	0.0	0	0.0
3	8	6.4	0	0.4	1.4	1.8	0	0.2	0	0.0
4	2	1.5	0	0.4	0	0.1	0	0.0	0	0.0
5	2	1.4	0	0.5	0	0.1	0	0.0	0	0.0
6	2	1.9	1	1.0	1.9	0	0.1	0	0.0	0.0
7	2	1.2	0	0.7	0	0.1	0	0.0	0	0.0
8	0	1.6	3	3.1	1.2	1.9	0	0.2	0	0.0
9	1	2.3	3	2.1	1	1.0	1.3	0.0	0	0.0
10	4	4.2	5	4.6	1	1.1	0	0.1	0	0.0
11	3	2.2	1	2.9	1	0.8	1	0.1	0	0.0
12	5	4.0	5	6.0	2	3.1	2.6	0.2	0	0.0
13	2	1.8	1	3.1	1	1.1	2	0.1	0	0.0
14	4	4.1	10	8.3	1	3.2	1	0.4	0	0.0
15	2	3.2	7	7.2	3	3.2	6	0.4	1.4	0
16	1	3.1	2.6	4.6	4	2.3	0	0.3	0	0.0
17	2	0.9	2	2.5	1	1.4	0	0.2	0	0.0
18	2	2.3	7	7.3	6	4.7	0	0.7	1.1	0.1
19	4	2.0	6	7.1	5	5.1	0.8	0	0	0.1
20	1	1.7	4	6.8	7	5.5	2	0.9	1.7	0.1
21	0	1.4	8	6.0	5	5.5	1	0.0	0	0.1
22	2	1.1	2	5.2	5	5.5	4	1.1	2.0	0.1
23	1	3.1	2.4	7.5	4	8.9	3	1.9	0	1.1
24	2	0.9	8	5.2	4	7.0	1	1.6	0	0.2
25	1	2.1	1.7	6.1	12	9.2	2	2.3	0	0.3
26	1	0.7	5	4.1	6	7.0	2	1.9	0	0.3
27	0	1.2	2.0	5	8.0	23	15.3	2	4.7	0
28	0	0.8	5	5.5	11	11.9	7	4.1	0	0.7
29	0	0.6	1.1	4.3	9	10.4	3	4.0	3	0.7
30	0	0.5	5	3.8	12	10.4	3	4.5	0	0.8
31	0	1.0	1.3	5	3.6	11	10.8	4	5.2	1
32	0	0.3	3	2.1	7	7.1	2	3.8	2	0.8
33	1	0.2	2	1.7	6	6.4	4	3.9	0	0.8
34	0	0.1	0	2.0	1.6	5	3.8	3	2.6	0.6
35	0	0.1	2	0.7	2	3.2	2	2.5	1	0.6
36	0	0.1	0	1.0	1.4	2	3.0	5	2.6	0.7
37	0	0.1	1	0.7	3	4.0	6	4.0	0	1.2
38	0	0.0	0	1.0	1.2	1	1.5	0	1.7	4.0
39	0	0.0	0	0.3	3	2.1	2	2.6	1	0.9
40	0	0.0	1	0.2	1	1.3	1	1.8	2	0.7
41	0	0.0	0	0.1	1	3.0	1.1	0.9	1.9	0.4

42	0	0.0	0	0.1	2	0.5	0	0.9	0	0.5
43	0	0.0	0	0.1	1	2.1	1.3	2	2.4	3.3
44	0	0.0	0	0.0	1	0.2	0	0.5	0	0.3
45	0	0.0	0	0.0	0	2.0	1.0	0.5	1	0.4
46	0	0.0	0	0.0	2	0.4	0	1.3	1.7	1
47	0	0.0	0	0.0	0	0.1	1	0.4	0	1.0
48	0	0.0	0	0.0	0	0.2	1	2.0	0.8	1.3
49	0	0.0	0	0.0	0	0.1	1	0.3	0	1.0
50	0	0.0	0	0.0	0	0.1	1	0.3	0	1.0
52	0	0.0	0	0.0	0	0.0	0	0.2	1	0.7

Item 10 S-X²(67) = 107.9, p = 0.0011 (Back)

Score	Category 0		Category 1		Category 2		Category 3	
	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected
0	2	0.7	2	8.2	0	0.9	6	0.3
2	0	0.1	2	1.6	0	0.2	1.1	0
3	0	0.1	2	1.6	0	0.2	0	0.1
4	0	0.0	1	0.8	0	0.1	0	0.0
5	1	3.0	1.1	2	3.2	0.4	0	0.1
6	0	0.1	3	2.4	0	0.4	1.1	0
7	0	0.0	0	0.8	0	0.1	1	0.0
8	0	0.1	3	3.2	3.1	0	0	0.1
9	1	0.3	6	5.4	0	0.1	1.6	0
10	0	0.3	7	6.1	1	1.2	0	0.4
11	2	3.0	1.2	6	7.6	1	1.6	1
12	0	0.3	1.0	7	6.7	2	1.5	0
13	0	0.2	5	5.2	2	1.2	0	0.4
14	0	0.4	11	11.1	2	2.6	2	2.0
15	0	0.3	1.1	9	8.1	1	2.0	1
16	0	0.2	7	6.5	1	1.7	1	2.0
17	0	0.3	8	8.6	4	2.3	0	0.8
18	0	0.3	7	7.1	2	1.9	1	1.0
19	0	0.3	1.2	11	8.5	0	2.4	1
20	0	0.3	8	9.1	5	2.7	0	1.0
21	0	0.3	11	9.0	2	2.7	0	0.9
22	0	0.3	8	9.6	2	3.0	4	1.1
23	0	1.0	1.5	18	15.7	4	5.0	1
24	1	0.3	9	10.1	3	3.4	2	2.1
25	0	0.2	8	7.3	3	2.5	0	0.9
26	0	0.3	1.2	13	10.6	3	3.7	0
27	0	0.3	10	9.1	3	3.3	1	1.2
28	0	0.6	27	22.6	6	8.5	2	3.2
29	0	0.3	1.3	11	12.1	8	4.7	0
30	0	0.3	11	10.7	3	4.3	3	1.7
31	0	0.4	17	16.2	7	6.7	2	2.6
32	0	0.2	11	9.8	2	4.2	3	1.7
33	0	3.0	1.2	9	7.9	2	3.5	2
34	0	0.1	4	4.8	4	2.2	0	0.9
35	0	0.2	7	7.7	5	3.6	1	1.5
36	0	0.1	0	2.3	2	1.1	2	0.5
37	0	0.1	1	2.9	4	1.4	0	0.6
38	1	0.1	2	3.4	3	1.8	0	0.8
39	1	0.1	4	3.9	2	2.1	0	0.9
40	0	0.1	2	3.3	4	2.4	0	0.8
41	0	0.0	2	1.1	0	0	0	0.3
42	0	0.1	3	3.2	3	1.9	0	1.5
43	0	0.0	0	1.0	2	0.6	1.3	1
44	0	0.0	1	1.0	0	0	0	0.3
45	0	0.0	1	2.1	2.5	1	2.1	0
46	0	0.0	1	1.0	1	0.7	0	0.3
47	0	0.0	0	0.1	1.4	1	2.0	0.3
48	0	0.0	0	0.5	1	0.3	0	0.2
49	0	0.0	1	1.0	1.6	2	1.4	0.4
50	0	0.0	0	0.4	1	0.4	0	0.2
51	0	0.0	0	0.4	1	0.4	0	0.2
52	1	0.0	0	0.3	0	0.4	0	0.3

Item 11 S-X²(63) = 100.7, p = 0.0907 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.9	0	0.1	0	0.0	0	0.0	0	0.0
1	2	1.9	0	0.1	0	0.0	0	0.0	0	0.0
3	8	7.1	0	0.8	0	0.1	0	0.0	0	0.0
4	2	1.7	0	0.3	1.2	0.1	0	0.0	0	0.0
5	2	2.4	0	0.5	1	0.1	0	0.0	0	0.0
6	2	1.5	0	0.4	0	0.1	0	0.0	0	0.0
7	2	2.1	0	0.7	1.5	0.2	0	0.0	0	0.0
8	0	1.3	1	0.5	1	0.1	0	0.0	0	0.0
9	2	2.5	0	1.2	1.7	0.3	1.0	0	0.1	0.0
10	6	5.1	2	2.9	0	0.9	1	0.1	0	0.0
11	5	3.6	2	2.4	0	0.8	1.7	0	0.1	0.0
12	5	5.1	4	4.1	1	1.5	1	0.3	0	0.0
13	3	4.7	6	4.2	1	1.7	1	0.3	1.0	0.0
14	1	3.4	5	3.6	2	1.6	1	0.3	0	0.0
15	6	5.1	5	6.1	4	3.1	0	0.6	0	0.1
16	3	2.7	1	3.7	3	2.1	2	0.4	1.4	0.1
17	4	3.5	5	5.3	4	3.3	0	0.7	0	0.1
18	2	3.3	4	5.7	6	3.9	2	0.9	1.7	0.1
19	2	2.1	5	4.0	1	3.1	2	0.8	0	0.1
20	2	1.8	3	3.8	4	3.3	1	0.9	1.7	0.1
21	3	2.7	8	6.2	2	6.0	4	1.8	0	0.3
22	3	2.8	5	6.9	9	7.5	3	2.4	0	0.4
23	2	1.9	7	5.2	5	6.3	2	2.2	0	0.3
24	1	2.1	2.5	8	4.9	5	6.6	2	2.5	0.4
25	1	0.8	2	2.5	5	3.8	1	1.6	0	0.3
26	3	1.6	9	5.4	6	9.1	3	4.2	0	0.7
27	2	2.5	5	8.9	23	16.6	8	8.5	0	1.5
28	1	1.2	2.0	4	4.4	6	9.2	8	5.2	1.0
29	0	0.9	4	3.4	7	7.8	5	5.0	4	1.0
30	0	0.9	1.5	6	3.9	10	9.7	6	7.0	1
31	0	0.6	2	2.4	7	6.6	7	5.3	0	1.2
32	1	3.0	1.5	5	6.2	3.1	6	6.1	4	1.5
33	1	0.2	1	0.9	5	3.0	1	3.1	0	0.8
34	0	0.3	1	1.3	2.2	8	4.6	3	5.3	1
35	0	0.1	0	0.5	2	2.0	1	2.6	3	0.8
36	0	0.1	0	0.4	3	1.8	3	2.7	0	0.9
37	0	0.1	0	1.0	1.6	3	3.9	6	5.1	2
38	0	0.0	0	0.2	1	0.8	1	1.4	1	1.6
39	0	0.0	0	0.2	1	3.0	2	1.9	1	1.0
40	0	0.0	0	0.2	2	0.8	2	1.9	0	1.1
41	0	0.0	1	0.1	0	1.0	1	1.9	2.8	1.9
42	0	0.0	0	0.1	1	0.3	0	0.9	1	0.7
43	0	0.0	0	0.1	0	0.6	1.3	2	1.8	2.6
44	1	0.0	0	0.0	0	0.2	0	0.9	1	0.9
45	0	0.0	0	0.0	0	0.2	1	1.0	1.2	1.0
46	0	0.0	0	0.0	0	0.1	0	0.4	1	0.5
47	0	0.0	0	0.0	0	0.1	1	1.0	1.4	1.8
48	0	0.0	0	0.0	0	0.1	0	0.3	1	0.6

49	0	0.0	0	0.0	0	0.0	0	0.3	1	2	0.7	1.5
52	0	0.0	0	0.0	0	0.0	0	0.2	1	1	0.8	

Item 12 S-X²(105) = 126.5 , p = 0.0750 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	1.4	0	0.4	0	0.2	0	0.0	0	0.0
1	2	2.0	0	0.6	1.1	0.3	0	0.0	0	0.0
2	0	0.6	0	0.2	1	0.1	0	0.0	0	0.0
3	7	7.4	6.6	5.2	1	2.1	2.4	1.0	2	1.0
4	0	1.1	0	0.6	1	0.3	0	0.0	0	0.0
5	1	1.5	0	1.0	1.5	0.5	0	0.1	1	0.0
6	1	0.5	0	0.3	0	0.2	1.0	0.0	0	0.0
7	2	3.1	3.0	1.7	0	1.0	1.3	0.6	0	0.1
8	0	0.8	0	0.7	2	2.0	1.1	0.1	0	0.0
9	3	3.2	2.2	3.0	1	1.2	2.6	1.5	0	0.1
10	4	3.4	3	3.3	3	2.6	0	0.5	1.3	0
11	3	2.2	1	2.3	1	1.9	0	0.4	2	0.1
12	3	2.7	4	3.0	2	2.6	0	0.5	0	0.2
13	3	2.8	3	3.3	4	3.1	0	0.6	1.5	0
14	3	2.9	3	3.6	4	3.5	1	0.7	0	0.3
15	4	2.7	4	3.5	3	3.7	0	1.0	1.5	0
16	3	3.0	5	4.1	4	4.5	1	1.0	0	0.4
17	1	2.1	2	3.1	7	3.6	0	0.8	0	0.3
18	4	2.4	2	3.6	5	4.5	0	1.1	1.9	0.5
19	2	2.2	6	3.5	3	4.6	1	1.2	0	1.0
20	2	2.4	4	4.0	7	5.5	0	1.5	1	0.6
21	2	2.0	6	3.3	3	4.8	1	1.3	0	1.0
22	2	2.1	3	3.7	7	5.8	1	1.7	1	0.7
23	4	3.5	9	6.4	7	10.5	2	3.2	3	4.1
24	3	2.8	8	5.2	5	8.9	4	2.8	1	1.3
25	1	1.7	4	3.3	7	6.0	2	2.0	0	0.9
26	0	1.4	2	2.7	7	5.2	2	1.8	1	1.0
27	2	3.4	3	6.9	24	14.1	3	5.2	0	2.4
28	0	2.1	3	4.3	12	9.3	5	3.6	1	1.7
29	1	1.9	2	4.1	10	9.3	6	3.8	2	1.9
30	0	2.1	6	4.7	10	11.1	8	4.7	1	2.4
31	0	1.1	2	2.5	6	6.2	4	2.8	2	1.5
32	1	2.1	1.9	4	2.8	7.5	2	3.5	3	1.9
33	1	0.7	0	1.6	4	4.4	4	2.2	1	1.2
34	1	4.0	4.0	1.4	0	1.0	1.6	2	1.6	2.5
35	1	0.2	1	0.6	1	1.7	1	0	0	0.6
36	1	0.4	1	1.0	1.9	2	2.9	2	1.7	1.0
37	1	0.4	0	1.0	2	3.3	4	2.1	1	1.3
38	1	2.0	0.5	1.3	5	1.3	1	4.4	2	2.9
39	0	0.2	1	4.5	0.5	0	2.0	2	1.4	0.9
40	0	0.1	1	0.3	0	0	1.1	1.0	1.0	2.0
41	0	0.1	2	0.3	0	0	1.1	0.9	1	0.6
42	0	0.1	0	2.0	0.3	1.1	2	1.4	1	0.9
43	0	0.0	0	0.1	0	0.3	1	0.3	0	0.2
44	0	0.1	0	0.1	0	0.7	0	0.6	2	3.0
45	0	0.0	1	0.1	1	1.0	1.5	0	1.6	0
46	0	0.0	0	0.1	0	0.3	0	0.3	1	0.3
47	1	0.0	0	0.1	0	0.6	1	0.6	0	0.7
48	0	0.0	1	0.1	0	1.0	1.1	2	0.6	1.5
49	0	0.0	0	0.1	1	0.4	1	0.6	0	1.0
50	0	0.0	0	0.1	0	0.2	0	0	1	0.8
52	0	0.0	0	0.0	0	0.2	0	0.3	1	0.5

Item 13 S-X²(92) = 116.4 , p = 0.0436 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4		
	Observed	Expected									
0	2	1.9	0	0.1	0	0.0	0	0.0	0	0.0	
1	2	1.9	0	0.1	0	0.0	0	0.0	0	0.0	
3	8	6.9	0	0.9	12	0.2	0	0.0	0	0.0	
4	2	1.6	0	0.3	0	0.1	0	0.0	0	0.0	
5	2	1.6	0	0.4	0	0.1	0	0.0	0	0.0	
6	2	1.5	0	0.4	1.1	0.1	0	0.0	0	0.0	
7	3	2.0	0	0.8	0	0.2	0	0.0	0	0.0	
8	0	1.3	1	1.6	1.3	0.1	0	0.0	0	0.0	
9	3	3.5	3	1.9	0	1.0	1.2	0.1	0	0.0	
10	3	2.7	2	1.7	0	0.5	0	0.1	0	0.0	
11	7	4.8	2	3.7	1	1.2	1.6	0.2	0	0.0	
12	5	3.9	3	3.6	1	1.2	0	0.3	0	0.0	
13	4	3.6	3	3.7	2	1.4	0	0.3	1.1	0.0	
14	4	3.9	5	4.7	1	1.9	1	0.4	0	0.1	
15	6	3.8	5	5.2	1	2.4	0	1.0	1.0	0.1	
16	5	5.4	5	8.2	4	4.2	5	1.1	0	0.2	
17	3	3.0	4	5.2	3	2.9	1	0.8	1	0.1	
18	2	1.3	3	2.5	1	1.6	0	1.0	1.2	0.1	
19	1	1.9	9	4.1	0	2.9	0	0.9	0	0.1	
20	2	2.5	7	6.0	5	4.7	1	1.5	2.4	0	
21	1	3.0	11	7.6	4	6.7	3	2.3	1	0.4	
22	1	2.2	3	6.2	9	6.0	3	2.3	1	0.4	
23	2	2.1	7	6.5	7	7.0	2	2.9	1	0.5	
24	2	1.4	5	4.5	3	5.4	2	2.4	2	0.4	
25	1	1.5	6	5.3	10	7.1	1	3.5	0	2.0	
26	0	1.0	5	3.8	7	5.6	2	3.0	0	0.6	
27	0	1.9	3	7.6	25	12.5	3	7.4	0	1.6	
28	0	0.1	2.0	4.7	9	8.4	8	5.5	1	1.2	
29	0	0.9	5	4.0	5	7.9	7	5.8	3	1.4	
30	1	1.0	1.7	8	4.3	6	9.3	8	7.5	1	1.9
31	0	0.7	5	3.4	8	7.9	7	7.1	1	1.9	
32	1	4.0	1.3	1	2.1	5	5.4	6	5.4	2	1.6
33	1	0.3	0	1.4	2	3.8	7	4.2	1	1.4	
34	0	0.1	0	1.0	3	2.3	2	2.8	3	1.0	
35	0	0.1	1	0.6	2	1.8	2	2.5	1	1.0	
36	0	0.1	0	0.5	1	1.7	3	2.6	2	1.1	
37	0	0.1	0	0.6	4	2.3	5	4.0	0	1.9	
38	0	0.1	1	1.0	0	1.2	3	2.3	1	1.2	
39	0	0.1	0	0.3	1	2.1	1.6	2.7	3.6	1	
40	0	0.0	0	0.1	1	0.4	1	0.9	0	0.6	
41	0	0.0	0	0.1	0	1.0	1.1	2	1.8	2	
42	0	0.0	0	0.1	1	0.4	0	1.3	2.1	2.0	
43	1	0.0	0	0.1	0	0.3	1.1	0.8	0	0.8	
44	0	0.0	0	0.1	0	0.3	1	1.2	2	1.4	
46	0	0.0	0	0.0	0	0.2	1	1.0	2	1.7	
47	1	0.0	0	0.0	0	0.1	0	0.6	1.3	1.9	
48	0	0.0	0	0.0	0	0.0	0	0.3	1	0.7	
49	0	0.0	0	0.0	0	0.0	0	0.2	1	0.7	
52	0	0.0	0	0.0	0	0.0	0	0.1	1	0.8	

Item 14 S-X²(81) = 104.5 , p = 0.0404 (Back)

Score	Category 0		Category 1		Category 2		Category 3		Category 4	
	Observed	Expected								
0	2	2.0	0	0.0	0	0.0	0	0.0	0	0.0
1	2	1.9	0	0.0	0	0.0	0	0.0	0	0.0
3	8	7.5	0	0.4	0	0.1	0	0.0	0	0.0

4	2	1.8 0	0.1	0	0.0	0	0.0	0	0.0	0	0.0
5	2	1.8 0	0.2	0	0.0	0	0.0	0	0.0	0	0.0
6	2	1.7 0	0.2	0	0.1	0	0.0	0	0.0	0	0.0
7	3	2.5 0	0.4	1.4 0	0.1	0	0.0	0	0.0	0	0.0
8	0	0.8	1	0.2	0	0.0	0	0.0	0	0.0	0.0
9	3	3.3 0	3.8 1	0.7	0	0.2	0	0.0	0	0.0	0.0
10	6	6.4 3	5.1 9	2.8 0	0.6	1.2 0	0.1	0	0.0	0	0.0
11	6	5.4	1	1.9 1	0.6	0	0.1	0	0.0	0	0.0
12	6	5.7	2	2.4 1	2.0 8	1.5 0	0.1	0	0.0	0	0.0
13	5	5.8	3	2.9	2	1.1 0	0.1	0	0.0	0	0.0
14	4	3.2	2	1.9 0	0.8	0	0.1	0	0.0	0	0.0
15	9	6.9	5	4.6 0	0.2 1	2.8 0	0.3	0	0.1	0	0.1
16	6	4.1	2	3.1	0	1.5 0	0.2	1.1 1	0.0	0	0.0
17	8	6.6	6	5.8	2	3.1 0	0.5	0	0.1	0	0.1
18	4	5.2	7	5.2	3	3.1 0	0.5	0	0.1	0	0.1
19	3	3.7	3	4.1	4	2.7 0	0.4	1.4 1	0.1	0	0.1
20	6	4.4	4	5.6	5	4.1 0	0.7	0	0.1	0	0.1
21	1	4.2	10	5.9	3	4.8 2	2.0 9	1.6 0	0.2	0	0.2
22	2	3.9	5	6.2	8	5.6	2	1.1 0	2.0 2	1.0	1.0
23	1	3.7	7	6.3	8	6.4	2	1.4 0	0.3	0	0.3
24	4	1.9	3	3.7	2	4.2 2	1.0	0	0.2	0	0.2
25	4	2.5	5	5.1	6	6.4 1	3.1 7	2.6 0	0.4	0	0.4
26	3	2.0	5	4.5	4	6.3	3	1.8 0	0.4	1.3	1.3
27	5	4.4	6	10.5	25	16.7	2	5.2	0	1.2	1.2
28	2	2.0	2	5.1	13	9.0	3	3.1 0	0.8	0	0.8
29	0	2.0	1	5.6	13	11.1	6	4.2 4	4.1 1	1.8	1.8
30	2	2.1 7	2.5	5	5.1	11	11.2	6	4.7	0	1.3
31	0	0.8	3	2.5	5	6.1	4	2.9 1	0.8	0	0.8
32	0	1.0 9	1.4	5	2.9	7	7.8	3	4.2 2	3.1 2	2.0
33	1	0.5	2	1.6	1	5.0	7	3.0	0	0.9	0.9
34	0	2.0 4	1.3 4	5.1 3	1.8	3	4.4	2	2.9 1	1.1 0	1.5
35	0	0.1	1	0.5	2	1.7	1	1.3 0	0.5	0	0.5
36	0	0.2	1	1.0 8	1.5	3	3.2	3	2.7	1	1.1
37	0	0.2	0	0.7	4	3.0	2	2.9	2	1.3	1.3
38	0	0.1	2	5.0 5	1.5	3	2.4	2	2.6	0	1.3
39	0	0.1	1	0.2	0	1.1 3	1.9 3	4.1 6	2.4 0	0.8	1.3
40	0	0.0	0	0.1	1	0.6	1	0.8	0	0.5	0.5
41	0	0.1	2	0.3	1	1.6	1	2.4 2	4.1 7	2.6	2.6
42	0	0.0	0	0.1	1	1.0 7	1.5	0	1.2 2	0.9	0.9
43	1	0.0	0	0.1	0	0.8	1	1.6	2.0	2	1.4
44	1	0.0	0	0.0	0	2.0 2	1.1 0	0.4	0	1.0 4	1.3
45	0	0.0	0	0.0	0	0.3	1	1.0 7	1.4 1	0.9	0.9
46	0	0.0	0	0.0	1	0.3	0	0.7	1	2.1 0	1.6
47	0	0.0	0	0.0	0	0.1	0	0.3	1.3 1	0.6	0.6
48	0	0.0	0	0.0	1	0.2	0	0.6	1	1.2	1.2
49	0	0.0	0	0.0	0	0.1	0	0.3	1	2.0 7	1.5
52	0	0.0	0	0.0	0	0.0	0	0.2	1	0.8	0.8

Item 15 S-X²(100) = 129.8 , p = 0.0240 (Back)

Score	Category 0			Category 1			Category 2			Category 3			Category 4		
	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed	Expected	Observed
0	2	1.8 0	0.2	0	0.1	0	0.0	0.0	0	0.0	0	0.0	0	0.0	0.0
1	2	1.7 0	0.2	0	0.1	0	0.0	0.0	0	0.0	0	0.0	0	0.0	0.0
3	8	7.2 0	0.2	1.2	1.5 1	0.5	0	0.1	0	0.1	0	0.0	0	0.0	0.0
4	2	1.5 0	0.3	0	0.1	0	0.0	0.0	0	0.0	0	0.0	0	0.0	0.0
5	1	0.7	0	0.2	0	0.1	0	0.0	0	0.0	0	0.0	0	0.0	0.0
6	2	3.1 4	2.1 0	0.4	0	1.0 2	1.1 0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0
7	3	2.7 0	0.8	1.6 0	0.4	0	0.1	0.1	0	0.1	1	0.0	0.0	0.0	0.0
8	0	1.3 0	0.4	2	0.2	0	0.0	0.0	0	0.0	0	0.0	0	0.0	0.0
9	4	2.4 0	0.9	1.3 0	1.3 0	2	0.5	1.2 0	0.1	0.1	0	0.0	0.0	0.0	0.0
10	5	4.7	2	1.9	1	1.1 0	0.2	0	0.0	0.1	0	0.1	0	0.1	0.1
11	6	5.0	0	2.2	3	1.4 0	0.3	0.3	0	0.3	0	0.1	0	0.1	0.1
12	6	4.7	2	2.3	1	1.5 0	0.3	0.3	0	0.3	1.3 0	0.1	0.1	0.1	0.1
13	3	2.0	1	1.1 0	0.7	0	0.2	0	0	0.2	0	0.0	0	0.0	0.0
14	6	7.1	7	4.1 2	2	3.0	3.7 0	0.7	0	0.7	0	0.2	0.2	0.2	0.2
15	6	4.9	4	3.1	1	2.3 0	0.5	1.3 0	0.1	0.5	1.0 2	0.2	1.0 2	1.0	1.0
16	5	4.2	3	2.8	2	2.3 0	0.5	0.5	0	0.5	0	0.1	0	0.1	0.1
17	6	4.8	2	3.4	3	2.9 1	1.0 7	1.2 0	0.2	1.0 2	1.0 2	0.7	1.0 2	1.0	1.0
18	6	4.9	3	3.7	3	3.3 0	0.8	1	0.8	1	0.2	0.2	0	0.2	0.2
19	6	5.6	6	4.6	2	4.3 2	2	1.1 1	1.9 0	0	0.3	0.3	0.3	0.3	0.3
20	3	4.6	3	4.0	6	4.0	1	1.1 1	0.3	1	1.1 1	0.3	0.3	0.3	0.3
21	4	4.0	5	3.7	4	3.9	0	1.1 0	1.1 0	0	1.1 0	2.0 3	1.1	1.1	1.1
22	3	5.5	4	5.4	7	5.9	5	1.7 0	1.7 0	5	1.7 0	0.5	0.5	0.5	0.5
23	1	3.8	9	3.9	2	4.5	2	1.4 0	1.4 0	2	1.4 0	0.4	0.4	0.4	0.4
24	4	4.0	5	4.4	5	5.4	1	1.7 1	1.7 1	1	1.7 1	1.0 5	1.4	1.4	1.4
25	5	4.7	3	5.4	11	7.0	1	2.3 0	2.3 0	0	2.3 0	0.7	0.7	0.7	0.7
26	2	3.7	4	4.4	7	6.1	3	2.1 1	2.1 1	1	2.1 1	1.0 6	1.3	1.3	1.3
27	2	5.7	2	7.1	22	10.4	2	3.7	3.7	0	3.7	1	1.1	1.1	1.1
28	2	4.0	3	5.1	11	8.0	5	3.0 0	3.0 0	5	3.0 0	2	0.9	1.8	1.8
29	2	3.0	2	4.0	5	6.6	6	2.6 2	2.6 2	6	2.6 2	0.8	0.8	0.8	0.8
30	2	3.7	9	5.2	8	9.1	4	3.8	3.8	0	3.8	1	1.1	1.2	1.2
31	2	2.8	5	4.1	7	7.6	4	3.3	3.3	1	3.3	1	1.1	1.1	1.1
32	1	1.8	4	2.7	5	5.3	2	2.4 1	2.4 1	1	2.4 1	1.0 8	1.8	1.8	1.8
33	4	1.8	2	2.8	5	5.7	3	2.8 0	2.8 0	3	2.8 0	1.0	1.0	1.0	1.0
34	2	2.0 9	1	1.5	5	3.3	0	1.7 0	1.7 0	1	1.7 0	1.0 6	1.1	1.1	1.1
35	0	0.6	2	1.1	1	2.4	2	1.4 1	1.4 1	2	1.4 1	0.5	0.5	0.5	0.5
36	2	3.1 0	1.5 3	3	1.7	2.6	2	4.1	4.1	2	4.1	2.0 9	1.5	1.5	1.5
37	1	0.5	0	0.9	1	2.4	3	1.5 1	1.5 1	3	1.5 1	0.6	0.6	0.6	0.6
38	1	3.0 6	1.3 4	5	1.2	1.6	1	3.2 1	1.2 1	3.0 1	3.0 1	2.0 9	1.2	1.2	1.2
39	1	0.2	1	0.4	0	1.2 0	0	0.8	0.8	1	0.8	0.4	0.4	0.4	0.4
40	1	0.4	1	3.0 8	1.6	2	2.3 1	2.1 7	2.7 1	2.7 1	1.0 8	1.0 8	1.2	1.2	1.2
41	1	3.0 2	1.0 1	0.4	0	1.1 1	0	0.9	0.9	0	0.9	0.4	0.4	0.4	0.4
42	2	0.3	1	0.5	0	1.8	1	1.6 1	1.6 1	2	1.6 1	2.0 8	1.5	1.5	1.5
43	0	0.2	1	2.0 4	1.1 1	2.1 4	2.1	1	1.3 1	1.3 1	0.7	0.7	1.3	1.3	1.3
44	0	0.1	0	0.2	1	0.7	0	0.0 7	0.0 7	1	0.0 7	1.0 1	2.0 4	1.3	1.3
45	0	0.0	0	0.1	1	2.0 3	1.2 0	0.3	0.3	0	0.3	0	0		

Item	Label	Marginal				14
		χ^2	11	12	13	
11	ABO11	2.1				
12	ABO12	0.2	3.3			
13	ABO13	1.3	6.4	8.0		
14	ABO14	1.8	7.0	4.0	8.2	
15	ABO15	0.6	1.3	12.8	4.3	4

Item Information Function Values for Group 1 at 15 Values of θ from -2.8 to 2.8 [\(Back to TOC\)](#)

Item	Label	θ:														
		-2.8	-2.4	-2.0	-1.6	-1.2	-0.8	-0.4	-0.0	0.4	0.8	1.2	1.6	2.0	2.4	2.8
1	ABO1	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.22
2	ABO2	0.40	0.62	0.81	0.88	0.88	0.89	0.90	0.86	0.86	0.90	0.91	0.90	0.89	0.80	0.60
3	ABO3	0.26	0.45	0.67	0.83	0.89	0.90	0.90	0.85	0.81	0.84	0.89	0.90	0.89	0.86	0.73
4	ABO4	0.40	0.54	0.62	0.64	0.64	0.65	0.67	0.67	0.67	0.68	0.68	0.67	0.66	0.64	0.57
5	ABO5	0.24	0.55	1.06	1.50	1.55	1.53	1.66	1.68	1.68	1.58	1.51	1.56	1.26	0.72	0.33
6	ABO6	0.19	0.46	0.97	1.53	1.68	1.64	1.74	1.65	1.65	1.77	1.75	1.73	1.39	0.79	0.35
7	ABO7	0.17	0.33	0.58	0.87	1.07	1.12	1.13	1.12	1.12	1.13	1.13	1.10	0.97	0.71	0.42
8	ABO8	0.11	0.26	0.57	1.07	1.49	1.62	1.63	1.56	1.56	1.47	1.50	1.37	0.91	0.46	0.22
9	ABO9	0.26	0.46	0.72	0.93	0.98	0.98	1.01	1.01	0.98	1.00	1.03	1.01	1.00	0.93	0.72
10	ABO10	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.05	0.05	0.06	0.06
11	ABO11	0.15	0.29	0.53	0.81	1.02	1.09	1.11	1.11	1.10	1.10	1.07	1.05	1.01	0.82	0.54
12	ABO12	0.21	0.24	0.27	0.28	0.29	0.29	0.29	0.28	0.28	0.28	0.29	0.29	0.29	0.28	0.27
13	ABO13	0.17	0.32	0.55	0.81	0.97	1.02	1.04	1.05	1.05	1.04	1.02	1.00	0.93	0.73	0.47
14	ABO14	0.08	0.16	0.32	0.59	0.90	1.12	1.19	1.18	1.15	1.15	1.18	1.17	1.11	0.90	0.59
15	ABO15	0.13	0.18	0.24	0.29	0.34	0.36	0.38	0.38	0.38	0.38	0.38	0.38	0.38	0.37	0.36
Test Information:		4.01	6.12	9.18	12.30	13.96	14.50	14.92	14.70	14.55	14.69	14.57	14.53	13.43	10.74	7.69
Expected s.e.:		0.50	0.40	0.33	0.29	0.27	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.27	0.31	0.36

Marginal Reliability for Response Pattern Scores: 0.9

Response Pattern Observed and Expected Frequencies, Standardized Residuals, EAPs and SDs for Group 1 [\(Back to TOC\)](#)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Frequencies		Standard			
															Observed	Expected	Residual	EAP[θ u]	SD[θ u]	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0.03	11.39	-2.93	0.52	
0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2	0.36	2.75	-2.83	0.50	
0	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0.05	4.36	-2.57	0.45	
0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	6	0.01	56.74	-2.72	0.48	
0	0	0	0	1	0	0	0	2	0	0	4	0	0	4	1	0.00	15393.44	-1.74	0.33	
0	0	0	0	2	2	0	2	2	1	3	1	0	0	0	1	0.00	8026.06	-0.85	0.32	
0	0	0	0	2	2	1	3	1	2	1	4	1	1	4	1	0.00	87967.22	-0.42	0.28	
0	0	0	0	3	4	3	4	3	3	4	4	4	4	4	2	1.00	284988.94	1.48	0.30	
0	0	0	1	1	2	1	3	1	2	3	0	3	0	2	1	0.00	25871.36	-0.48	0.30	
0	0	0	3	3	3	4	3	4	1	2	3	2	3	3	1	0.00	123459.18	0.97	0.29	
0	0	1	2	1	2	1	1	2	1	2	2	1	1	2	1	0.00	519.21	-0.44	0.25	
0	0	2	1	1	3	3	3	3	1	3	2	3	3	3	1	0.00	15937.38	0.75	0.28	
0	1	0	0	0	0	0	0	0	3	0	2	1	1	2	1	0.00	854.64	-1.66	0.30	
0	1	0	0	1	1	1	1	0	2	1	2	2	2	1	1	0.00	2886.36	-0.98	0.27	
0	1	1	1	3	1	1	1	1	1	3	3	1	2	2	1	0.00	1941.85	-0.34	0.27	
0	1	2	1	0	1	0	1	1	0	0	0	1	0	0	1	0.00	101.72	-1.26	0.27	
0	1	2	2	1	1	2	1	2	2	2	1	2	2	1	1	0.00	646.53	-0.24	0.25	
0	2	0	2	2	2	0	1	0	1	2	2	2	0	0	0	1	0.00	1146.10	-0.79	0.29
0	2	1	1	4	3	2	1	2	2	1	1	1	1	1	0	1	0.00	7340.85	-0.15	0.27
0	2	2	0	0	0	1	0	0	2	0	2	1	0	0	1	0.00	836.03	-1.29	0.29	
0	2	2	2	1	1	1	2	3	1	2	2	1	3	3	1	0.00	1810.00	0.01	0.27	
0	4	2	3	3	1	2	3	3	2	3	2	0	3	4	3	1	0.00	25651.31	0.83	0.28
1	0	0	0	0	0	0	0	0	1	0	2	0	0	0	1	0.07	3.65	-2.44	0.42	
1	0	0	0	0	0	0	2	1	1	2	0	0	0	0	1	0.00	181.13	-1.75	0.32	
1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0.01	8.26	-2.21	0.36	
1	0	0	0	1	1	1	1	2	1	1	1	2	2	1	1	0.00	842.98	-0.78	0.26	
1	0	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0.16	2.13	-2.40	0.40	
1	0	0	1	0	0	0	1	1	1	1	1	2	2	1	1	0.00	768.20	-1.07	0.27	
1	0	0	1	1	1	2	0	0	3	0	1	1	1	2	1	0.00	1034.05	-1.13	0.27	
1	0	0	1	1	2	1	1	3	1	3	1	0	0	1	1	0.00	1554.95	-0.70	0.27	
1	0	1	0	1	1	2	2	0	2	1	2	0	1	1	1	0.00	1212.12	-0.87	0.27	
1	0	1	2	2	1	1	0	3	2	2	0	2	1	0	1	0.00	3300.80	-0.53	0.27	
1	0	1	2	3	2	2	3	3	1	4	4	1	2	3	1	0.00	12174.73	0.54	0.28	
1	1	0	0	0	0	0	0	0	0	0	1	0	0	2	1	0.00	63.89	-2.12	0.35	
1	1	0	1	1	2	0	1	2	3	1	2	2	1	0	1	0.00	778.72	-0.65	0.26	
1	1	0	1	1	2	1	1	3	1	3	1	0	0	1	1	0.00	1649.08	-0.70	0.27	
1	1	0	1	2	1	3	2	2	1	1	2	1	0	2	1	0.00	514.73	-0.45	0.26	
1	1	0	2	1	1	1	1	1	0	1	1	0	1	0	1	0.00	72.20	-0.99	0.25	
1	1	0	2	1	1	1	2	1	1	1	2	0	0	4	3	1	0.00	5063.64	-0.57	0.27
1	1	1	0	0	0	0	0	0	0	2	4	0	0	0	1	0.00	1006.59	-1.76	0.31	
1	1	1	0	1	1	2	2	1	1	0	2	1	0	1	1	0.00	164.06	-0.84	0.26	
1	1	1	1	0	0	1	0	1	1	0	2	1	1	2	1	0.00	140.67	-1.18	0.26	
1	1	1	1	1	0	0	1	0	1	0	0	0	0	0	1	0.00	23.16	-1.56	0.28	
1	1	1	1	1	1	0	0	1	0	0	0	0	0	0	1	0.00	58.22	-1.24	0.26	
1	1	1	1	1	1	1	1	1	1	1	0	1	1	0	1	0.00	39.83	-0.87	0.24	
1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	1	0.00	89.65	-0.78	0.23	
1	1	1	1	1	1	1	1	2	1	1	2	1	1	1	1	0.00	54.27	-0.73	0.24	
1	1	1	1	1	1	1	2	2	1	1	0	2	1	2	1	0.00	154.75	-0.54	0.25	
1	1	1	1	1	1	2	1	0	1	1	0	2	2	0	1	0.00	180.94	-0.73	0.26	
1	1	1	1	1	1	2	2	1	1	1	2	1	1	2	2	0.00	150.88	-0.42	0.25	
1	1	1	1	1	2	1	1	1	0	1	1	0	0	0	1	0.00	79.25	-1.01	0.25	
1	1	1	1	2	1	1	1	0	2	1	1	1	0	1	0	0.00	219.63	-0.88	0.25	
1	1	1	1	3	3	2	3	2	1	1	2	3	2	2	1	0.00	700.97	0.36	0.27	
1	1	1	1	2	2	1	1	0	1	1	1	1	1	0	1	0.00	97.13	-0.81	0.25	
1	1	1	2	2	2	2	2	3	1	3	3	2	2	2	1	0.00	526.74	0.35	0.26	
1	1	1	2	3	2	0	0	2	2	1	2	2	3	3	1	0.00	5930.18	-0.09	0.29	
1	1	2	1	1	1	0	0	1	0	1	0	0	0	1	1	0.00	440.63	-1.07	0.26	
1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	0.00	55.52	-0.72	0.24	
1	1	2	2	1	1	1	2	2	1	2	1	1	1	2	1	0.00	108.31	-0.31	0.25	
1	1	2	2	2	2	2	1	2	1	1	1	2	2	2	1	0.00	191.57	-0.09	0.24	
1	1	2	2	2	2	2	3	1	3	2	2	2	2	2	1	0.00	142.50	0.32	0.25	
1	1	2	2	2	2	2	3	3	1	4	4	3	3	3	1	0.00	2220.95	0.78	0.27	
1	1	2	2	2	3	2	3	3	1	3	2	2	3	3	1	0.00	586.43	0.70	0.26	
1	1	2	2	3	3	3	3	1	2	3	3	3	3	2	1	0.00	395.46	0.91	0.25	
1	1	3	3	3	1	3	1	1	0	1	3	1	1	1	1	0.00	7965.45	-0.13	0.29	
1	2	0	2	1	1	2	2	1	2	2	2	2	1	0	1	0.00	759.93	-0.44	0.26	
1	2	0	2	2	0	1	2	3	3	2	4	3	0	2	1	0.00	28334.34	-0.18	0.29	
1	2	0	1	2	1	0	1	2	1	1	0	0	0	0	1	0.00	212.01	-0.96	0.27	
1	2	0	1	3	2	2	1	1	3	2	2	1	2	2	1	0.00	1051.07	-0.09	0.26	
1	2	0	2	2	2	2	1	1	2	1	2	2	2	2	1	0.00	173.36	0.01	0.24	

1	2	1	0	0	0	0	1	0	1	0	0	0	0	1	0.00	43.01	-1.79	0.31		
1	2	1	0	1	2	1	2	2	1	1	2	1	0	1	0.00	201.83	-0.56	0.26		
1	2	1	1	2	1	1	2	2	2	2	1	0	1	1	0.00	221.84	-0.47	0.25		
1	2	1	1	2	1	2	2	2	1	2	4	3	2	1	1	0.00	447.72	0.05	0.25	
1	2	1	2	2	0	2	1	2	3	0	2	1	1	1	1	0.00	1244.62	-0.46	0.26	
1	2	1	2	3	2	1	2	2	2	2	1	1	2	2	1	0.00	240.27	0.10	0.25	
1	2	1	3	2	2	1	1	1	1	1	2	1	1	2	1	0.00	450.51	0.16	0.26	
1	2	1	3	2	2	1	1	1	1	1	2	1	1	2	1	0.00	184.70	-0.39	0.24	
1	2	2	1	1	1	2	2	1	1	1	2	0	0	0	1	0.00	180.16	-0.63	0.26	
1	2	2	1	1	3	3	3	3	3	1	3	2	2	1	1	0.00	3555.73	0.45	0.27	
1	2	2	1	2	1	1	1	1	2	1	0	3	4	3	2	1	0.00	3568.49	-0.10	0.28
1	2	2	1	2	1	1	2	2	2	1	2	1	1	2	1	0.00	159.36	-0.24	0.24	
1	2	2	1	2	3	2	1	2	2	2	2	1	1	2	1	0.00	180.34	-0.00	0.25	
1	2	2	1	3	3	3	2	1	1	1	1	1	0	2	1	0.00	881.26	0.02	0.28	
1	2	2	2	1	1	2	2	1	1	0	1	2	2	3	1	0.00	371.40	-0.22	0.26	
1	2	2	2	2	2	1	2	2	3	2	1	3	3	1	1	0.00	521.48	0.28	0.26	
1	2	2	2	2	2	2	2	3	2	1	2	2	2	3	1	0.00	295.04	0.42	0.25	
1	2	2	2	2	2	2	3	2	1	3	3	1	3	2	1	0.00	221.17	0.48	0.25	
1	2	2	2	2	3	2	3	2	1	1	2	2	1	2	1	0.00	93.85	0.40	0.25	
1	2	2	2	2	3	3	2	2	2	1	2	2	2	2	1	0.00	171.80	0.39	0.25	
1	2	2	2	2	3	3	4	3	1	2	2	2	2	3	1	0.00	465.76	0.76	0.26	
1	2	2	2	2	3	3	2	3	1	2	2	2	2	3	1	0.00	206.49	0.77	0.25	
1	2	2	2	3	3	3	2	3	1	3	2	2	2	3	1	0.00	626.21	0.80	0.25	
1	2	2	2	4	2	3	2	2	3	2	2	3	3	2	1	0.00	526.26	0.72	0.26	
1	2	2	3	1	2	2	0	2	1	1	1	1	1	1	1	0.00	381.50	-0.30	0.26	
1	2	2	3	2	2	3	2	3	1	2	3	3	3	4	1	0.00	761.32	0.73	0.26	
1	2	2	3	2	2	3	3	2	1	1	2	2	2	2	1	0.00	172.16	0.38	0.25	
1	2	2	3	3	2	3	3	2	1	3	2	2	2	3	1	0.00	123.16	0.74	0.25	
1	2	3	1	1	1	1	3	3	2	3	0	0	1	1	1	0.00	13601.23	-0.18	0.29	
1	2	3	3	3	2	2	3	2	1	3	2	2	2	3	1	0.00	173.01	0.74	0.25	
1	2	4	2	0	2	3	3	1	2	1	3	3	3	3	1	0.00	3584.97	0.57	0.29	
1	3	0	0	0	0	0	2	0	1	2	1	0	1	0	1	0.00	2486.35	-1.37	0.31	
1	3	1	1	3	0	1	3	0	1	3	2	2	3	0	1	0.00	24528.01	0.03	0.32	
1	3	1	2	2	2	2	3	1	3	3	4	4	4	2	2	1	0.00	1189.77	0.59	0.26
1	3	1	2	2	2	3	2	2	2	3	2	2	2	2	1	0.00	276.04	0.43	0.25	
1	3	1	2	2	3	3	2	3	2	1	3	2	2	2	3	1	0.00	1353.01	0.59	0.26
1	3	2	1	2	2	3	3	2	2	2	3	2	3	2	1	0.00	540.17	0.60	0.25	
1	3	2	1	3	2	2	3	2	1	3	2	3	3	1	1	0.00	277.29	0.70	0.25	
1	3	2	2	1	2	2	1	3	1	2	3	2	2	2	1	0.00	469.17	0.25	0.26	
1	3	2	2	3	3	0	2	1	2	2	2	2	2	1	2	0.00	977.73	0.29	0.26	
1	3	2	2	4	0	4	2	2	3	3	3	3	3	0	1	0.00	9256.07	0.94	0.28	
1	3	2	4	4	4	4	4	2	4	2	3	4	2	1	1	0.00	519.91	2.10	0.29	
1	3	3	1	3	3	0	1	2	1	0	2	0	0	2	1	0.00	15968.87	-0.19	0.32	
2	0	0	0	1	1	0	0	0	1	0	0	0	0	0	1	0.00	954.80	1.17	0.25	
2	0	0	1	1	1	0	1	1	1	2	0	0	0	0	1	0.00	14.66	-1.89	0.32	
2	0	1	1	1	1	0	2	0	1	2	2	2	2	2	1	0.00	76.14	-1.14	0.26	
2	0	1	1	1	1	0	2	0	1	2	2	2	2	2	1	0.00	654.61	-0.59	0.27	
2	0	1	2	3	1	3	0	2	3	0	2	4	2	0	1	0.00	35875.53	-0.17	0.31	
2	0	2	3	0	2	2	1	2	1	1	0	1	4	2	1	0.00	9927.33	-0.24	0.28	
2	0	3	1	3	1	2	3	3	2	3	1	1	1	0	1	0.00	12744.81	0.17	0.29	
2	1	0	0	0	0	0	0	1	0	0	2	0	0	0	1	0.01	8.29	-2.11	0.35	
2	1	0	0	0	1	1	2	2	3	1	1	0	0	0	1	0.00	904.83	-0.90	0.28	
2	1	0	0	1	1	3	2	3	1	2	2	2	2	2	1	0.00	2423.30	-0.14	0.28	
2	1	0	1	1	1	1	0	1	1	1	0	0	0	1	0.00	47.73	-1.12	0.25		
2	1	0	1	2	2	1	2	0	0	3	1	1	3	0	1	0.00	435.20	-0.63	0.27	
2	1	0	1	3	3	3	0	1	0	3	1	1	2	3	1	0.00	48501.38	-0.11	0.31	
2	1	0	2	0	0	1	1	0	0	1	0	2	0	0	1	0.00	131.20	-1.42	0.28	
2	1	0	2	0	3	1	4	1	1	0	3	1	0	0	1	0.00	22846.94	-0.43	0.31	
2	1	0	2	1	1	0	3	1	1	3	0	0	0	0	1	0.00	1088.27	-0.91	0.29	
2	1	0	2	1	2	1	0	1	2	0	2	0	0	1	1	0.00	287.29	-0.98	0.27	
2	1	0	2	2	1	2	0	0	3	1	1	3	0	1	1	0.00	2969.35	-0.71	0.28	
2	1	0	2	3	2	2	1	0	1	1	2	2	1	3	1	0.00	969.01	-0.35	0.27	
2	1	0	4	0	0	3	1	2	1	1	1	1	2	1	1	0.00	13426.20	-0.64	0.29	
2	1	1	0	1	1	1	2	2	2	1	2	1	1	2	1	0.00	278.14	-0.40	0.25	
2	1	1	0	3	2	1	3	2	1	1	0	0	0	1	0	0.00	1842.81	-0.40	0.28	
2	1	1	1	0	0	1	1	1	1	3	3	3	1	0	1	0.00	2451.86	-0.75	0.28	
2	1	1	1	1	1	0	1	1	1	0	0	0	0	0	1	0.00	25.13	-1.40	0.27	
2	1	1	1	1	1	0	1	1	1	3	2	2	1	1	0	0.00	345.22	-0.88	0.25	
2	1	1	1	1	1	0	1	1	1	0	2	0	0	0	1	0.00	36.13	-1.18	0.26	
2	1	1	1	1	1	0	1	1	1	0	0	0	0	0	1	0.00	24.37	-1.23	0.26	
2	1	1	1	1	1	1	0	1	2	3	0	0	0	2	1	0.00	388.63	-0.94	0.26	
2	1	1	1	1	1	1	1	1	1	0	4	0	0	0	1	0.00	99.63	-1.02	0.25	
2	1	1	1	1	1	1	1	1	1	2	3	1	0	0	1	0.00	79.83	-0.77	0.24	
2	1	1	1	1	1	1	1	1	1	2	2	3	2	2	1	0.00	1523.40	-0.53	0.25	
2	1	1	1	1	1	1	1	1	1	1	3	4	1	1	1	0.00	64.34	-0.83	0.25	
2	1	1	1	1	1	1	0	1	1	1	2	1	0	0	1	0.00	342.15	-0.84	0.26	
2	1	1	1	1	2	0	0	1	1	1	2	1	0	0	1	0.00	364.69	-1.12	0.27	
2	1	1	1	2	1	1	2	1	1	2	1	0	0	0	1	0.00	93.26	-0.		

2	1	1	1	1	2	0	0	1	2	1	1	1	1	1	0.00	175.63	-0.71	0.25		
2	2	1	1	3	3	2	0	1	1	3	2	0	3	1	0.00	257.98	-0.38	0.24		
2	2	1	1	3	3	1	2	2	2	3	1	2	3	1	0.00	2458.72	0.04	0.28		
2	2	1	2	0	0	0	0	1	0	2	0	0	2	1	0.00	1383.72	0.37	0.27		
2	2	1	2	1	1	2	1	1	1	2	1	1	2	1	0.00	159.61	-1.49	0.30		
2	2	1	2	1	1	2	1	1	1	2	1	1	2	1	0.00	61.93	-0.47	0.24		
2	2	1	2	1	1	2	1	1	0	1	1	0	0	1	0.00	290.10	-0.62	0.26		
2	2	1	2	1	2	1	2	2	1	2	2	1	1	1	0.00	65.67	-0.11	0.24		
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2	2	1	2	2	2	1	3	1	1	3	0	0	3	1	0.00	1439.17	0.02	0.27		
2	2	1	2	2	2	2	2	2	1	2	2	1	2	2	1	0.00	36.42	0.13	0.24	
2	2	1	2	3	2	1	1	2	1	1	3	3	1	2	1	0.00	321.35	0.05	0.26	
2	2	1	2	3	2	3	3	2	2	3	4	3	2	1	0.00	458.04	0.79	0.26		
2	2	2	1	1	2	1	2	2	1	1	2	1	2	2	1	0.00	62.29	-0.13	0.25	
2	2	2	1	1	2	2	2	2	1	2	3	2	2	2	1	0.00	68.24	0.16	0.25	
2	2	2	1	2	0	1	0	0	2	1	0	0	0	0	1	0.00	474.84	-1.09	0.28	
2	2	2	1	2	1	0	1	2	1	0	2	1	2	2	1	0.00	198.17	-0.39	0.26	
2	2	2	1	2	1	0	2	2	1	2	3	2	1	1	1	0.00	212.85	-0.13	0.25	
2	2	2	1	2	2	1	2	1	1	2	2	2	1	1	1	0.00	52.06	-0.07	0.24	
2	2	2	1	2	2	2	2	2	1	2	2	2	2	1	1	0.00	30.41	0.18	0.24	
2	2	2	1	2	2	2	2	2	2	2	3	2	3	1	0.00	153.45	0.38	0.24		
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2	2	2	1	3	3	3	3	1	1	3	2	3	2	0	1	0.00	256.57	0.67	0.26	
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2	2	2	2	1	1	3	2	1	2	2	0	3	1	0	1	0.00	617.54	-0.11	0.26	
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2	2	2	2	2	2	2	2	2	1	1	2	3	2	3	1	0.00	82.63	0.22	0.25	
2	2	2	2	2	2	2	2	2	1	1	2	2	2	2	1	0.00	43.51	0.23	0.24	
2	2	2	2	2	2	2	2	2	1	1	3	2	1	1	1	0.00	60.96	0.11	0.24	
2	2	2	2	2	2	2	2	2	1	2	1	2	1	1	1	0.00	37.45	0.12	0.24	
2	2	2	2	2	2	2	2	2	1	2	1	2	3	2	1	0.00	48.44	0.31	0.24	
2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	13	0.00	235.79	0.28	0.23	
2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	0.00	25.56	0.35	0.24	
2	2	2	2	2	2	2	2	2	1	3	2	2	2	3	1	0.00	437.51	0.01	0.25	
2	2	2	2	2	2	2	2	2	2	2	3	2	2	4	1	0.00	143.82	0.38	0.24	
2	2	2	2	2	2	3	2	2	1	2	3	3	1	2	1	0.00	76.04	0.38	0.24	
2	2	2	2	2	3	3	1	2	2	2	3	2	1	1	1	0.00	139.87	0.44	0.25	
2	2	2	2	3	2	2	2	1	1	2	2	2	1	2	1	0.00	57.49	0.23	0.24	
2	2	2	2	3	2	3	2	1	1	3	2	1	3	1	1	0.00	147.23	0.56	0.25	
2	2	2	2	3	3	0	4	1	1	3	1	3	4	1	1	0.00	6268.63	0.73	0.28	
2	2	2	2	3	3	2	2	1	1	3	2	2	2	3	1	0.00	160.67	0.47	0.25	
2	2	2	2	3	1	1	4	4	0	2	1	0	0	0	1	0.00	70223.52	-0.03	0.30	
2	2	2	2	3	2	2	2	2	1	2	2	2	2	2	1	0.00	201.80	-0.12	0.26	
2	2	2	2	3	2	2	2	2	1	2	2	2	2	2	1	0.00	20.26	0.38	0.24	
2	2	2	2	3	2	2	2	2	1	3	2	2	2	2	1	0.00	30.97	0.54	0.24	
2	2	2	2	3	3	1	3	2	1	3	2	1	2	1	1	0.00	149.13	0.52	0.26	
2	2	2	2	3	3	1	3	3	1	3	2	1	3	1	1	0.00	330.32	0.71	0.26	
2	2	2	2	3	3	2	2	2	1	3	2	3	3	3	1	0.00	108.86	0.74	0.25	
2	2	2	2	3	3	3	1	1	1	3	3	2	0	2	1	0.00	691.77	0.41	0.27	
2	2	2	2	3	3	3	4	2	2	2	2	2	2	2	1	0.00	179.63	0.89	0.25	
2	2	2	2	3	2	1	2	2	2	1	2	2	2	2	1	0.00	53.92	0.23	0.24	
2	2	2	3	2	2	2	2	2	1	2	2	2	2	2	2	0.00	56.12	0.34	0.24	
2	2	2	3	2	3	2	2	1	3	1	1	2	2	2	1	0.00	147.71	0.55	0.25	
2	2	2	3	2	3	3	2	2	1	3	1	1	2	2	1	0.00	192.50	0.83	0.25	
2	2	2	3	3	1	0	2	2	2	1	3	2	2	2	3	1	0.00	470.07	0.35	0.27
2	2	2	3	3	2	2	3	2	1	2	2	2	2	2	2	1	0.00	35.04	0.56	0.24
2	2	2	3	3	2	3	3	2	1	2	2	3	3	3	1	0.00	81.95	0.85	0.25	
2	2	2	3	3	2	2	2	2	1	3	3	2	3	2	1	0.00	99.34	0.73	0.25	
2	2	3	1	2	3	2	3	1	2	4	2	3	2	2	1	0.00	842.18	0.69	0.26	
2	2	3	2	1	2	1	2	1	1	3	2	2	1	1	1	0.00	626.33	-0.26	0.25	
2	2	3	2	2	2	2	1	2	1	2	3	2	1	3	1	0.00	281.64	0.17	0.25	
2	2	3	3	1	3	3	3	1	1	2	3	3	3	3	1	0.00	1110.50	0.88	0.26	
2	2	3	3	2	2	3	2	1	2	3	2	2	2	2	1	0.00	106.39	0.28	0.25	
2	2	3	3	2	1	2	2	2	1	2	2	2	2	2	1	0.00	118.77	0.00	0.25	
2	2	3	2	1	4	4	4	2	3	4	1	4	4	4	1	0.00	3943.13	1.92	0.30	
2	2	3	2	2	1	2	2	2	2	2	1	2	2	2	1	0.00	120.98	0.25	0.25	
2	2	3	2	2	2	2	1	2	0	1	1	1	2	2	1	0.00	315.93	-0.02	0.25	
2	2	3	2	2	2	2	2	2	1	3	2	1	2	2	1	0.00	56.79	0.36	0.24	
2	3	2	2	3	0	0	2	0	2	0	2	0	3	2	0	1	0.00	83.07	0.47	0.24
2	3	2	2	3	2	2	2	3	1	2	1	1	2	2	1	0.00	7223.04	-0.55	0.31	
2	3	2	2	3	2	3	2	2	1	3	1	0	3	2	1	0.00	495.17	0.45	0.26	
2	3	2	2	3	3	3	2	2	3	2	1	2	2	2	0	1	0.00	401.87	0.76	0.26
2	3	2	2	3	4	3	3	2	4	4	4	3	2	1	1	0.00	381.54	1.91	0.28	
2	3	2	4	4	4	4	2	3	4	4	4	4	2	1	1	0.00	4790.01	1.79	0.30	
2	3	3	1	1	3	1	3	4	1	3	4	3	2	2	1	0.00	4114.46	0.88	0.28	
2	3	3	1	2	1	1	2	1	1	2	0	3	2	0	1	0.00	1087.12	-0.01	0.27	
2	3	3	1	3	2	3	2</td													

1	1	2	1	2	1	1	0	1	1	2	0	1	1	1	0.00	241.96	-0.66	0.25			
3	1	1	2	3	2	3	1	1	1	0	3	4	0	3	1	0.00	12411.53	0.00	0.30		
3	1	1	3	2	1	2	1	1	2	1	2	3	1	1	1	0.00	908.26	-0.24	0.25		
3	1	1	3	3	2	4	2	2	1	0	1	1	1	1	1	0.00	2721.39	0.04	0.27		
3	1	2	0	2	2	1	2	1	1	3	1	1	1	0	1	0.00	545.65	-0.27	0.26		
3	1	2	1	1	3	2	2	1	1	1	1	2	3	3	1	0.00	1294.59	0.06	0.27		
3	1	2	2	1	0	2	0	1	1	1	1	0	0	1	0	1	0.00	325.53	-0.86	0.27	
3	1	2	2	1	1	1	1	2	1	3	0	1	2	0	1	0.00	419.18	-0.37	0.26		
3	1	2	4	3	4	4	3	2	2	4	1	3	2	1	1	0.00	3947.53	1.19	0.28		
3	1	3	1	2	1	1	1	1	1	1	1	1	1	1	1	0.00	315.95	-0.51	0.24		
3	2	1	0	2	2	1	3	1	1	3	3	1	2	2	1	0.00	1311.67	0.09	0.27		
3	2	1	0	2	3	4	3	3	1	2	1	1	1	2	2	1	0.00	3643.88	0.48	0.27	
3	2	1	0	3	2	1	0	3	1	1	1	0	3	2	1	1	0.00	6228.27	-0.08	0.29	
3	2	1	1	1	2	1	1	2	1	2	1	2	1	1	1	0.00	149.18	-0.29	0.24		
3	2	1	1	1	2	2	2	2	1	3	1	2	0	1	1	0.00	294.46	-0.10	0.26		
3	2	1	1	3	2	2	1	1	2	3	2	1	1	1	1	0.00	557.75	-0.04	0.26		
3	2	1	1	3	3	1	1	1	2	0	0	2	0	1	1	0.00	1501.30	-0.22	0.28		
3	2	1	2	1	2	1	2	2	2	2	2	2	3	1	1	1	0.00	314.66	0.10	0.25	
3	2	1	2	1	2	3	0	2	1	0	2	1	0	0	1	1	0.00	629.32	-0.49	0.28	
3	2	1	2	2	1	2	1	2	1	1	2	1	1	2	1	1	0.00	109.16	-0.23	0.24	
3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0.00	61.98	0.26	0.24	
3	2	1	2	3	2	2	2	3	3	1	2	1	2	1	1	0.00	315.85	0.34	0.26		
3	2	1	3	2	2	1	2	3	1	1	2	1	2	2	1	1	0.00	285.73	0.13	0.25	
3	2	2	0	1	1	1	1	1	1	0	0	0	0	0	1	1	0.00	174.42	-0.89	0.26	
3	2	2	1	0	2	1	2	1	1	1	2	0	0	2	1	1	0.00	399.64	-0.52	0.27	
3	2	2	1	1	0	0	1	2	1	1	1	1	1	0	2	1	0.00	337.77	-0.73	0.26	
3	2	2	2	1	2	1	2	1	1	3	1	2	2	1	1	1	0.00	203.06	-0.04	0.25	
3	2	2	2	1	2	1	1	2	1	1	1	1	1	2	0	1	0.00	116.35	-0.32	0.25	
3	2	2	1	2	1	2	2	1	3	1	4	1	0	2	1	1	0.00	978.53	-0.20	0.25	
3	2	2	1	2	2	3	2	2	1	2	3	3	2	2	1	1	0.00	97.44	0.44	0.25	
3	2	2	1	2	2	3	2	2	2	2	3	3	2	2	1	1	0.00	154.33	0.46	0.25	
3	2	2	1	3	2	0	2	2	1	2	4	3	2	4	1	1	0.00	1059.63	0.44	0.26	
3	2	2	1	3	2	1	3	0	1	2	1	1	1	0	1	1	0.00	751.61	-0.06	0.27	
3	2	2	1	3	3	2	3	2	1	3	2	2	2	2	1	1	0.00	71.36	0.68	0.25	
3	2	2	2	1	1	1	0	0	1	0	2	0	0	0	1	1	0.00	207.18	-1.00	0.27	
3	2	2	2	1	1	2	1	3	1	1	1	3	2	0	1	1	0.00	587.94	-0.08	0.27	
3	2	2	2	2	2	2	2	2	1	2	2	3	3	2	1	1	0.00	49.24	0.46	0.24	
3	2	2	2	3	1	2	1	2	1	1	2	2	3	2	1	1	0.00	233.98	0.20	0.26	
3	2	2	3	1	1	2	0	2	2	1	2	4	3	2	4	1	1	0.00	754.19	-0.35	0.28
3	2	2	3	2	2	2	2	1	2	1	2	2	3	2	2	1	1	0.00	42.08	0.45	0.24
3	2	2	3	2	2	2	3	2	1	1	1	2	2	3	3	1	1	0.00	179.47	0.53	0.25
3	2	2	3	2	2	2	3	2	1	1	3	3	3	2	1	1	0.00	142.57	0.60	0.25	
3	2	2	3	2	3	3	1	1	1	1	2	2	1	0	1	1	0.00	273.82	0.02	0.25	
3	2	2	3	3	3	3	3	1	1	3	3	3	2	3	1	1	0.00	73.74	1.14	0.24	
3	2	2	3	4	3	1	3	2	3	2	0	3	3	0	1	1	0.00	2938.37	0.86	0.27	
3	2	2	3	4	3	3	1	4	3	2	3	3	3	1	3	1	0.00	1871.55	1.22	0.27	
3	2	2	4	3	3	4	1	3	2	2	1	3	2	4	1	1	0.00	3462.96	0.98	0.27	
3	2	3	1	4	2	4	4	3	3	4	3	2	2	1	1	1	0.00	11793.27	1.15	0.30	
3	2	3	2	2	3	3	1	1	2	1	2	3	3	1	1	1	0.00	1908.20	0.49	0.27	
3	2	3	2	2	3	3	3	3	1	1	3	3	3	3	1	1	0.00	175.25	1.14	0.25	
3	2	3	2	3	2	2	2	2	1	2	2	2	2	2	1	1	0.00	44.91	0.50	0.24	
3	2	3	2	3	2	3	4	2	1	4	3	3	3	3	1	1	0.00	377.84	1.23	0.26	
3	2	3	3	1	1	3	1	1	2	2	0	3	0	0	1	1	0.00	7491.06	-0.14	0.29	
3	2	3	3	2	2	4	3	2	2	2	2	3	2	1	1	1	0.00	356.67	0.77	0.26	
3	2	3	3	3	2	2	3	1	1	1	2	2	3	2	1	1	0.00	325.54	0.71	0.26	
3	2	4	1	3	3	0	2	2	2	3	2	4	3	1	2	1	0.00	8606.08	0.59	0.27	
3	3	1	2	1	1	0	2	0	2	0	0	1	2	1	1	1	0.00	3086.66	-0.61	0.27	
3	3	1	2	3	3	2	1	1	2	2	2	3	2	1	1	1	0.00	825.33	0.43	0.26	
3	3	2	1	1	2	1	1	1	2	1	2	2	1	1	1	1	0.00	313.62	-0.14	0.25	
3	3	2	1	1	2	2	3	2	3	2	3	3	1	1	1	1	0.00	1177.54	0.52	0.26	
3	3	2	1	3	1	2	2	1	1	2	1	2	2	1	1	1	0.00	329.09	0.04	0.26	
3	3	2	1	4	2	0	4	2	2	3	4	2	1	2	1	1	0.00	10781.75	0.74	0.29	
3	3	2	2	1	2	2	1	2	1	3	3	3	2	1	2	1	0.00	1517.39	0.50	0.28	
3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0.00	115.88	0.28	0.24	
3	3	2	2	3	1	1	2	1	1	2	3	4	1	3	1	1	0.00	2008.95	0.33	0.27	
3	3	2	2	4	2	3	2	2	2	4	4	4	3	4	1	1	0.00	1587.26	1.15	0.28	
3	3	2	3	2	4	2	3	3	2	1	4	1	1	1	1	1	0.00	3666.76	0.69	0.27	
3	3	2	3	3	2	2	1	1	2	2	2	3	2	1	1	1	0.00	271.78	0.44	0.26	
3	3	2	3	3	3	4	3	2	1	3	3	2	3	3	1	1	0.00	169.19	1.56	0.25	
3	3	3	1	3	3	1	3	3	2	1	2	2	1	2	1	1	0.00	1657.02	0.68	0.27	
3	3	3	2	2	2	2	2	2	1	3	2	1	2	1	1	1	0.00	167.45	0.44	0.25	
3	3	3	2	3	3	2	3	1	1	2	2	2	2	1	1	1	0.00	342.36	0.63	0.26	
3	3	3	2	3	3	4	3	2	1	3	3	2	2	2	1	1	0.00	119.20	1.10	0.25	
3	3	3	3	1	2	3	2	2	1	1	0	2	1	0	1	1	0.00	1681.28	0.23	0.27	
3	3	3	3	3	2	4	0	1	1	1	3	3	2	2	1	1	0.00	10723.45	0.54	0.29	
3	3</td																				

2	3	4	3	1	2	3	3	2	1	4	1	3	1	0.00	20101.38	0.89	0.29		
4	2	4	4	4	4	4	2	4	2	1	4	1	0	1	0.00	65905.30	1.58	0.33	
4	3	0	1	0	1	2	1	1	1	2	1	1	0	1	0.00	1804.01	-0.69	0.26	
4	3	2	3	2	1	3	2	1	1	1	2	1	1	1	0.00	1613.75	0.09	0.26	
4	3	3	2	4	4	1	3	2	2	4	4	2	3	1	1	0.00	4920.92	1.38	0.28
4	3	3	3	4	4	4	3	2	2	2	1	3	3	0	1	0.00	1750.90	1.46	0.26
4	4	2	1	1	3	1	3	1	1	1	1	0	1	1	0.00	11145.61	-0.15	0.29	
4	4	2	2	1	1	0	0	0	1	1	0	2	2	1	0.00	15268.14	-0.51	0.29	
4	4	2	3	3	2	0	2	2	1	2	4	3	1	0	1	0.00	5943.11	0.51	0.27
4	4	3	3	2	2	3	2	1	1	3	3	2	4	4	1	0.00	8714.65	0.98	0.28
4	4	3	3	4	3	4	2	2	1	4	4	4	0	1	1	0.00	11317.69	1.55	0.30
4	4	4	2	4	4	2	4	4	2	4	2	4	4	1	0.00	361.74	2.52	0.35	
4	4	4	4	4	0	1	3	2	2	3	4	2	3	4	1	0.00	240241.78	1.43	0.31
4	4	4	4	4	4	4	4	0	4	4	4	4	4	1	0.00	64.94	3.27	0.45	
4	4	4	4	4	4	4	4	2	0	2	3	0	1	1	0.00	67529.07	2.05	0.32	

Likelihood-based Values and Goodness of Fit Statistics [\(Back to TOC\)](#)

Statistics based on the loglikelihood

-2loglikelihood: 16818.63

Akaike Information Criterion (AIC): 16966.63

Bayesian Information Criterion (BIC): 17271.20

Statistics based on the full item x item x ... classification

The table is too sparse to compute the general

multinomial goodness of fit statistics.

Statistics based on one- and two-way marginal tables

M ₂	Degrees of freedom	Probability	RMSEA
3294.61	1609	0.0001	0.05

Note: M₂ is based on full marginal tables.

Note: Model-based weight matrix is used.

Summary of the Data and Control Parameters [\(Back to TOC\)](#)

Sample Size 453

Number of Items 15

Number of Dimensions 1

Item	Label	Categories	Model
1	ABO1	5	Graded
2	ABO2	5	Graded
3	ABO3	5	Graded
4	ABO4	5	Graded
5	ABO5	5	Graded
6	ABO6	5	Graded
7	ABO7	5	Graded
8	ABO8	5	Graded
9	ABO9	5	Graded
10	ABO10	4	Graded
11	ABO11	5	Graded
12	ABO12	5	Graded
13	ABO13	5	Graded
14	ABO14	5	Graded
15	ABO15	5	Graded

Parameter Estimation Control Values

Bock-Aitkin EM Algorithm

Maximum number of cycles: 500

Convergence criterion: 1.00e-005

Maximum number of M-step iterations: 50

Convergence criterion for iterative M-steps: 1.00e-006

Number of rectangular quadrature points: 49

Minimum, Maximum quadrature points: -6.00 6.00

SEM algorithm tolerance: 1.00e-003

Standard error computation algorithm: Supplemented EM

Miscellaneous Control Values

Print parameter numbers? Yes

Z tolerance, max. abs. logit value: 50.00

Number of processor cores used: 4

Number of cycles completed: 94

Maximum parameter change: 0.00e+000

Number of free parameters: 74

Processing times (in seconds)

E-step computations: 0.16

M-step computations: 0.20

Standard error computations: 0.52

Goodness-of-fit statistics: 69.10

Total: 69.96

Output Files

HTML results and control parameters: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-irt.htm

Text results and control parameters: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-irt.txt

Text parameter estimate file: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-prm.txt

Text parameter error covariance file: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-cov.txt

Information values in a file: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-inf.txt

Polychoric correlations in a file: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-pol.txt

Factor loadings in a file: C:\Users\vasil\Downloads\Burnout in Esports_MachineLearning.Test1-fac.txt

Convergence and Numerical Stability

Engine status: Normal termination

SEM algorithm status: Normal

First-order test: Convergence criteria satisfied

Condition number of information matrix: 8.55e+001

Second-order test: Solution is a possible local maximum