

*Note: this document is a supplement to “Chapter 5” from Dr. John Lyons’ upcoming book, “Communimetrics...” that deals exclusively with the CANS. It is still in draft form and has not yet been published (as of 1/30/09). The book is expected to come out in Spring 2009.*

Table 5.3 Item analysis of the Behavioral/Emotional Needs of the CANS Comprehensive based on 6010 initial assessments in New Jersey

Item	Total	Psychosis	Anxiety	Depression	AdjTrauma	Impulse	Oppositional	Conduct	Anger
Psychosis	0.34								
Anxiety	0.55	0.23							
Depression	0.54	0.21	0.46						
AdjTrauma	0.44	0.14	0.29	0.31					
Impulse	0.64	0.14	0.24	0.14	0.11				
Oppositional	0.58	0.03	0.14	0.15	0.06	0.47			
Conduct	0.64	0.08	0.13	0.12	0.07	0.39	0.54		
Anger	0.67	0.08	0.18	0.14	0.11	0.44	0.61	0.43	
Substance	0.30	-0.03	0.01	0.10	-0.06	0.03	0.15	0.22	0.08

Table 5.4 Item analysis of Strength items from the CANS-Comprehensive based on 6010 initial assessments in New Jersey.

Item	Total	Family	Education	Community	Interpersonal	Optimism	Permanence	Spiritual	Talents
Family	0.52								
Education	0.45	0.12							
Community	0.64	0.22	0.20						
Interpersonal	0.51	0.29	0.20	0.32					
Optimism	0.58	0.27	0.20	0.29	0.40				
Permanence	0.47	0.31	0.08	0.24	0.18	0.18			
Spiritual	0.57	0.16	0.13	0.37	0.17	0.22	0.15		
Talents	0.61	0.21	0.21	0.32	0.32	0.29	0.14	0.27	
Vocational	0.50	0.09	0.13	0.20	0.24	0.16	0.09	0.14	0.31

Table 5.5 Rasch item fit for the Strengths domain

ENTRY	RAW			REAL	INFIT	OUTFIT	PTMEA	EXACT	MATCH			
NUMBER	SCORE	COUNT	MEASURE	S.E.	MNSQ	ZSTD	MNSQ	ZSTD	CORR.	OBS%	EXP%	STRNGTH
22	1757	4016	1.0	.0	1.65	9.9	1.15	3.1	.53	67.2	68.3	cs_vocational
24	2644	4016	.4	.0	.63	-9.9	.55	-9.9	.71	71.4	59.0	cs_optimism
25	2891	4016	.3	.0	.90	-4.3	.75	-8.4	.69	65.7	58.3	cs_talents_interests
21	3040	4016	.2	.0	1.20	8.0	1.13	3.8	.62	59.8	56.4	cs_educational
20	3117	4016	.2	.0	.80	-9.0	.84	-5.5	.67	61.9	56.1	cs_interpersonal
26	3436	4016	.0	.0	1.24	9.9	1.10	3.3	.65	55.6	53.7	cs_spiritual_religious
23	3691	4016	-.1	.0	.59	-9.9	.59	-9.9	.75	65.7	53.3	cs_wellbeing
27	3883	4016	-.2	.0	.89	-5.0	.78	-8.5	.73	54.7	51.2	cs_community_life
28	5524	4016	-.9	.0	1.34	9.9	1.46	9.9	.55	43.8	47.4	cs_relationship_permanence
19	5882	4016	-1.0	.0	1.29	9.9	1.50	9.9	.55	42.7	47.8	cs_family
MEAN	3586.5	4016.0	.0	.0	1.05	1.0	.98	-1.2		58.9	55.1	
S.D.	1199.3	.0	.6	.0	.32	8.8	.32	7.7		9.2	5.8	

Table 5.6 Probability structure of the Strengths dimension on the Illinois DCFS version of the CANS.

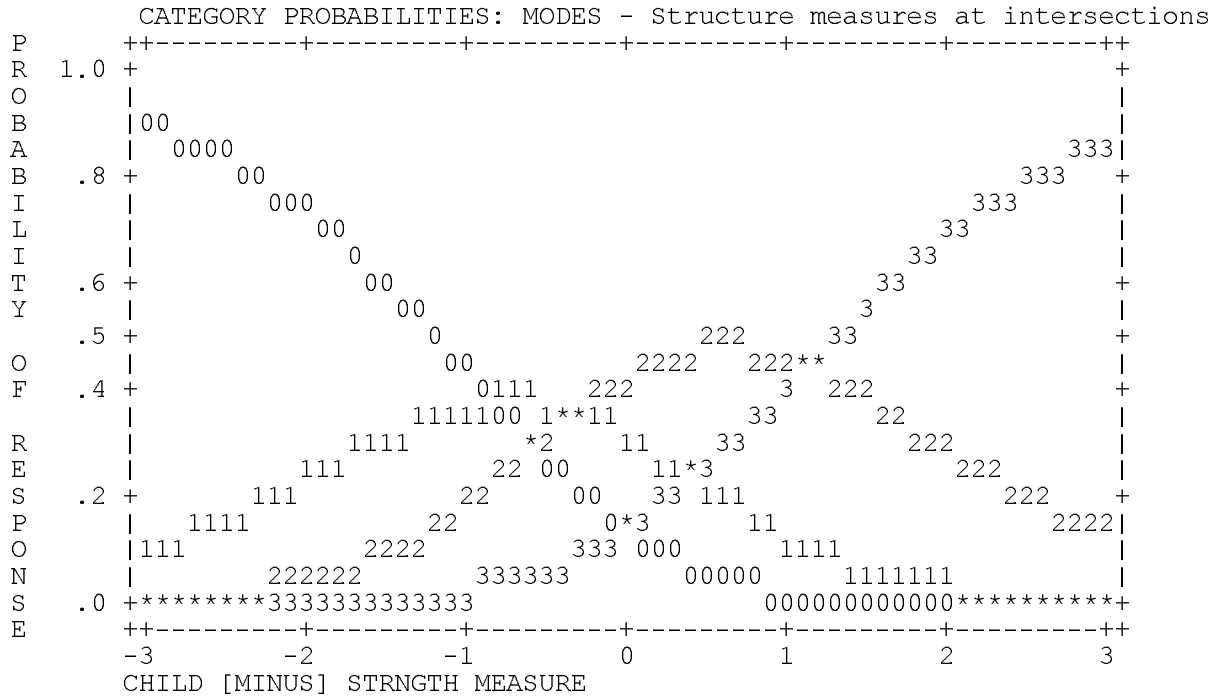


TABLE 5.7 Rasch scaling of the Behavioral/Emotional, Risk Behaviors and Functioning items of the CANS for the Illinois Department of Children and Family Services

ENTRY NUMBER	RAW SCORE	COUNT	MEASURE	REAL S.E.	INFIT   MNSQ	OUTFIT   ZSTD	PTMEA   CORR.	EXACT   OBS%	MATCH   EXP%	STRNGTH
67	181	3793	1.9	.1	1.04	.7   .66	-2.6   .28	95.5   95.3		firesetting

63	227	3793	1.7	.1 1.11	1.8  .46	-5.2	.33	94.9	94.2	sexual_aggression
60	285	3793	1.4	.1  .94	-1.1  .68	-3.1	.35	93.0	92.7	self_mutilation
61	374	3793	1.1	.1  .95	-1.0  .66	-3.9	.40	91.5	90.6	other_self_harm
69	449	3793	.8	.1 1.03	.7  .69	-3.9	.40	89.7	88.9	sexually_reactive_behavior
59	454	3793	.8	.1  .89	-2.8  .59	-5.4	.43	89.6	88.8	suicide_risk
18	576	3793	.8	.0 1.09	2.0  .88	-1.4	.40	87.2	86.8	dissociation
65	521	3793	.7	.0  .89	-2.9  .47	-8.4	.47	88.7	87.3	delinquency
38	533	3793	.6	.0 1.01	.2  .66	-5.0	.44	88.2	87.0	sexuality
64	547	3793	.6	.0 1.00	.0  .63	-5.5	.46	88.7	86.7	runaway
37	598	3793	.5	.1 1.36	8.8 1.66	7.6	.25	82.5	85.7	physical
35	607	3793	.4	.0 1.07	1.9  .65	-5.6	.45	86.9	85.5	legal
62	689	3793	.3	.0  .78	-6.9  .56	-8.1	.52	87.1	83.9	danger_to_others
34	706	3793	.2	.1 1.86	9.9 1.39	5.4	.36	84.6	83.5	job_functioning
17	1089	3793	.1	.0 1.23	6.3  .96	-.6	.48	77.6	77.9	numbing
68	925	3793	-.1	.0  .83	-6.1  .57	-9.6	.56	83.8	79.7	social_behavior
41	970	3793	-.2	.0 1.10	3.5  .90	-2.0	.49	80.0	78.9	school_attendance
16	1371	3793	-.2	.0 1.22	6.8 1.01	.2	.51	72.4	73.4	avoidance
15	1390	3793	-.2	.0 1.36	9.9 1.17	3.0	.48	69.6	73.2	re_experiencing
66	1047	3793	-.3	.0  .70	-9.9  .50	-9.9	.62	85.3	77.8	judgment
39	1212	3793	-.6	.0  .85	-5.8  .68	-8.4	.60	79.3	75.3	school_behavior
32	1279	3793	-.6	.0 1.49	9.9 1.70	9.9	.31	61.4	74.3	developmental
36	1313	3793	-.7	.0 1.55	9.9 2.19	9.9	.23	59.1	74.0	medical
33	1409	3793	-.8	.0  .84	-6.8  .75	-7.1	.58	75.5	72.7	recreational
40	1441	3793	-.8	.0  .92	-3.1  .80	-5.7	.60	76.7	72.4	school_achievement
30	1788	3793	-1.2	.0  .92	-3.6  .92	-2.6	.58	69.1	68.3	living_situation
31	2131	3793	-1.6	.0  .68	-9.9  .66	-9.9	.69	74.6	65.8	social_function
14	3772	3793	-1.9	.0 1.09	3.8 1.13	4.6	.66	52.3	54.3	adjustment_to_trauma
29	3313	3793	-2.6	.0  .89	-5.5  .94	-3.0	.65	63.6	59.4	family_function
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MEAN	1075.8	3793.0	.0	.0 1.06	.4  .88	-2.6		80.3	79.8	
S.D.	825.5	.0	1.0	.0  .26	5.9  .40	5.6		11.1	9.9	