Lab 10 Example 2 - Spring Fever Test

Wednesday, March 28, 2012 4:48 PM

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Mplus VERSION 6.1
MUTHEN & MUTHEN
03/28/2012
           4:44 PM
INPUT INSTRUCTIONS
  TITLE: Lab 10 - Spring Fever Items - Single Factor Model;
          FILE IS Lab 10 Spring Fever Items.txt;
  DATA:
          TYPE IS CORRELATION;
         NOBSERVATIONS IS 250;
  VARIABLE: NAMES ARE item1-item12;
  MODEL: factor1 BY item1* item2-item12 (L1-L12);
          item1-item12 (U1-U12);
          factor101;
  MODEL CONSTRAINT:
          NEW (OMEGA);
          OMEGA = (L1+L2+L3+L4+L5+L6+L7+L8+L9+L10+L11+L12)**2/
          ((L1+L2+L3+L4+L5+L6+L7+L8+L9+L10+L11+L12) **2
          +U1+U2+U3+U4+U5+U6+U7+U8+U9+U10+U11+U12);
  OUTPUT: STANDARDIZED RESIDUAL CINTERVAL;
INPUT READING TERMINATED NORMALLY
Lab 10 - Spring Fever Items - Single Factor Model;
SUMMARY OF ANALYSIS
Number of groups
                                                              250
Number of observations
Number of dependent variables
                                                               12
Number of independent variables
                                                                0
Number of continuous latent variables
                                                                1
Observed dependent variables
  Continuous
                                      ITEM10 ITEM5
                        ITEM3 ITEM4
  ITEM1
              ITEM2
              ITEM8
                                                  ITEM11
                                                              ITEM12
   ITEM7
                          ITEM9
Continuous latent variables
  FACTOR1
Estimator
                                                               ML
                                                         EXPECTED
Information matrix
                                                             1000
Maximum number of iterations
                                                        0.500D-04
Convergence criterion
Maximum number of steepest descent iterations
Input data file(s)
  Lab 10 Spring Fever Items.txt
Input data format FREE
```

THE MODEL ESTIMATION TERMINATED NORMALLY

MODEL FIT INFORMATION

Number of Free Parameters 24

Loglikelihood

H0 Value -3715.255 H1 Value -3455.788

Information Criteria

Akaike (AIC) 7478.510
Bayesian (BIC) 7563.025
Sample-Size Adjusted BIC 7486.943
(n* = (n + 2) / 24)

Chi-Square Test of Model Fit

Value 518.934
Degrees of Freedom 54
P-Value 0.0000

RMSEA (Root Mean Square Error Of Approximation)

Estimate 0.186
90 Percent C.I. 0.171 0.200
Probability RMSEA <= .05 0.000

CFI/TLI

CFI 0.695 TLI 0.627

Chi-Square Test of Model Fit for the Baseline Model

Value 1590.032
Degrees of Freedom 66
P-Value 0.0000

SRMR (Standardized Root Mean Square Residual)

Value 0.117

MODEL RESULTS

	Estimat	e S.E.	Est./S.E.	Two-Tailed P-Value
FACTOR1 F ITEM1 ITEM2 ITEM3 ITEM4	BY 0.68 0.67 0.57 0.59	8 0.058 9 0.060	11.932 11.726 9.618 10.009	0.000 0.000 0.000 0.000

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ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.723 0.716 0.598 0.722 0.744 0.632 0.588 0.287	0.056 0.057 0.060 0.057 0.056 0.059 0.060	12.804 12.630 10.007 12.778 13.316 10.720 9.792 4.424	0.000 0.000 0.000 0.000 0.000 0.000 0.000
Variances				
FACTOR1	1.000	0.000	999.000	999.000
Residual Variance	s			
ITEM1	0.525	0.052	10.082	0.000
ITEM2	0.537	0.053	10.135	0.000
ITEM3	0.660	0.063	10.560	0.000
ITEM4	0.638	0.061	10.495	0.000
ITEM5	0.473	0.048	9.827	0.000
ITEM6	0.483	0.049	9.882	0.000
ITEM7	0.638	0.061	10.495	0.000
ITEM8	0.475	0.048	9.835	0.000
ITEM9	0.443	0.046	9.649	0.000
ITEM10	0.596	0.058	10.362	0.000
ITEM11	0.650	0.062	10.532	0.000
ITEM12	0.913	0.083	11.070	0.000
New/Additional Pa	rameters			
OMEGA	0.890	0.010	86.840	0.000

STANDARDIZED MODEL RESULTS

STDYX Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
FACTOR1 BY				
ITEM1	0.688	0.037	18.518	0.000
ITEM2	0.679	0.038	17.913	0.000
ITEM3	0.580	0.046	12.744	0.000
ITEM4	0.600	0.044	13.584	0.000
ITEM5	0.725	0.034	21.319	0.000
ITEM6	0.717	0.035	20.726	0.000
ITEM7	0.599	0.044	13.578	0.000
ITEM8	0.724	0.034	21.232	0.000
ITEM9	0.745	0.032	23.178	0.000
ITEM10	0.633	0.042	15.239	0.000
ITEM11	0.589	0.045	13.112	0.000
ITEM12	0.288	0.061	4.691	0.000
Variances				
FACTOR1	1.000	0.000	999.000	999.000
Residual Variances				
ITEM1	0.527	0.051	10.309	0.000
ITEM2	0.539	0.051	10.477	0.000
ITEM3	0.663	0.053	12.542	0.000
ITEM4	0.640	0.053	12.099	0.000

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ITEM5	0.475	0.049	9.642	0.000	
ITEM6	0.485	0.050	9.770	0.000	
ITEM7	0.641	0.053	12.102	0.000	
ITEM8	0.476	0.049	9.660	0.000	
ITEM9	0.445	0.048	9.273	0.000	
ITEM10	0.599	0.053	11.372	0.000	
ITEM11	0.653	0.053	12.341	0.000	
ITEM12	0.917	0.035	25.931	0.000	

STDY Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
FACTOR1 BY				
ITEM1	0.688	0.037	18.518	0.000
ITEM2	0.679	0.038	17.913	0.000
ITEM3	0.580	0.046	12.744	0.000
ITEM4	0.600	0.044	13.584	0.000
ITEM5	0.725	0.034	21.319	0.000
ITEM6	0.717	0.035	20.726	0.000
ITEM7	0.599	0.044	13.578	0.000
ITEM8	0.724	0.034	21.232	0.000
ITEM9	0.745	0.032	23.178	0.000
ITEM10	0.633	0.042	15.239	0.000
ITEM11	0.589	0.045	13.112	0.000
ITEM12	0.288	0.061	4.691	0.000
Variances				
FACTOR1	1.000	0.000	999.000	999.000
Residual Variances	5			
ITEM1	0.527	0.051	10.309	0.000
ITEM2	0.539	0.051	10.477	0.000
ITEM3	0.663	0.053	12.542	0.000
ITEM4	0.640	0.053	12.099	0.000
ITEM5	0.475	0.049	9.642	0.000
ITEM6	0.485	0.050	9.770	0.000
ITEM7	0.641	0.053	12.102	0.000
ITEM8	0.476	0.049	9.660	0.000
ITEM9	0.445	0.048	9.273	0.000
ITEM10	0.599	0.053	11.372	0.000
ITEM11	0.653	0.053	12.341	0.000
ITEM12	0.917	0.035	25.931	0.000

STD Standardization

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
FACTOR1 BY				
ITEM1	0.686	0.058	11.932	0.000
ITEM2	0.678	0.058	11.726	0.000
ITEM3	0.579	0.060	9.618	0.000
ITEM4	0.598	0.060	10.009	0.000
ITEM5	0.723	0.056	12.804	0.000
ITEM6	0.716	0.057	12.630	0.000
ITEM7	0.598	0.060	10.007	0.000

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ITEM8 ITEM9 ITEM1 ITEM1 ITEM1	0	0.722 0.744 0.632 0.588 0.287	0.057 0.056 0.059 0.060 0.065	12.778 13.316 10.720 9.792 4.424	0.000 0.000 0.000 0.000 0.000	
Variance FACTO		1.000	0.000	999.000	999.000	
	Variances					
ITEM1		0.525	0.052	10.082	0.000	
ITEM2 ITEM3		0.537 0.660	0.053 0.063	10.135 10.560	0.000	
ITEM4		0.638	0.063	10.360	0.000	
ITEM5		0.473	0.048	9.827	0.000	
ITEM6		0.483	0.049	9.882	0.000	
ITEM7		0.638	0.061	10.495	0.000	
ITEM8		0.475	0.048	9.835	0.000	
ITEM9	1	0.443	0.046	9.649	0.000	
ITEM1		0.596	0.058	10.362	0.000	
ITEM1		0.650	0.062	10.532	0.000	
ITEM1	.2	0.913	0.083	11.070	0.000	
R-SQUARE						
Obser	ved				Two-Tailed	
Varia		Estimate	S.E.	Est./S.E.	P-Value	
ITEM1		0.473	0.051	9.259	0.000	
ITEM1		0.461	0.051	8.957	0.000	
ITEM3		0.337	0.053	6.372	0.000	
ITEM4		0.360	0.053	6.792	0.000	
ITEM5		0.525	0.049	10.659	0.000	
ITEM6		0.515	0.050	10.363	0.000	
ITEM7		0.359	0.053	6.789	0.000	
ITEM8		0.524	0.049	10.616	0.000	
ITEM9		0.555	0.048	11.589	0.000	
ITEM1		0.401	0.053	7.619	0.000	
ITEM1		0.347	0.053 0.035	6.556 2.346	0.000	
ITEM1	. ∠	0.083	0.035	2.346	0.019	

QUALITY OF NUMERICAL RESULTS

> Condition Number for the Information Matrix (ratio of smallest to largest eigenvalue)

0.141E+00

CONFIDENCE INTERVALS OF MODEL RESULTS

2.5% Upper		Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper
FACTOR1 BY ITEM1 799 0.8	0.538	0.574	0.592	0.686	0.781	0.
ITEM2 791 0.8	0.529	0.564	0.582	0.678	0.773	0.
ITEM3	0.424	0.461	0.480	0.579	0.678	0.

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697	0.734 ITEM4	0.444	0.481	0.500	0.598	0.697	0.
716	0.752 ITEM5	0.578	0.612	0.630	0.723	0.816	0.
834	0.869 ITEM6		0.605	0.623	0.716	0.809	0.
827	0.862 ITEM7	0.444	0.481	0.500	0.598	0.697	0.
715	0.752 ITEM8				0.722		0.
833	0.868	0.577	0.611	0.629		0.815	
853	0.888	0.600	0.634	0.652	0.744	0.836	0.
748	0.784		0.517	0.535	0.632	0.729	0.
705	ITEM11 0.742	0.433	0.470	0.489	0.588	0.687	0.
415	ITEM12 0.455	0.120	0.160	0.181	0.287	0.394	0.
Vai	riances FACTOR1 1.000	1.000	1.000	1.000	1.000	1.000	1.
Res	sidual Varia ITEM1 0.659	0.391	0.423	0.439	0.525	0.610	0.
	ITEM2	0.400	0.433	0.450	0.537	0.624	0.
641	0.673 ITEM3	0.499	0.538	0.558	0.660	0.763	0.
783	0.822 ITEM4	0.481	0.519	0.538	0.638	0.738	0.
757	0.794 ITEM5	0.349	0.379	0.394	0.473	0.552	0.
567	0.597 ITEM6	0.357	0.387	0.403	0.483	0.564	0.
579	0.609 ITEM7	0.481	0.519	0.538	0.638	0.738	0.
757	0.795 ITEM8	0.350	0.380	0.395	0.475	0.554	0.
569	0.599 ITEM9	0.325	0.353	0.367	0.443	0.518	0.
533	0.561 ITEM10	0.448	0.484	0.502	0.596	0.691	0.
709	0.745 ITEM11	0.491	0.529		0.650	0.752	0.
772	0.810						
075	1.126	0.701	0.752	0.778	0.913	1.049	1.
New 910	v/Additional OMEGA 0.917	0.864	0.870	0.873	0.890	0.907	0.

CONFIDENCE INTERVALS OF STANDARDIZED MODEL RESULTS

STDYX Standardization

 ${\tt C:\Users\agibbons\Documents\Teaching\PSY~600K~-Spring~2012\lab~10~test.out}$

2.5% Upper .5%	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper
FACTOR1 BY						
ITEM1 761 0.784	0.592	0.615	0.627	0.688	0.749	0.
TEM2 753 0.776	0.581	0.605	0.617	0.679	0.741	0.
ITEM3 670 0.698	0.463	0.491	0.505	0.580	0.655	0.
ITEM4 686 0.713	0.486	0.513	0.527	0.600	0.672	0.
ITEM5	0.637	0.658	0.669	0.725	0.781	0.
791 0.812 ITEM6	0.628	0.650	0.661	0.717	0.774	0.
785 0.807 ITEM7	0.486	0.513	0.527	0.599	0.672	0.
686 0.713 ITEM8	0.636	0.657	0.668	0.724	0.780	0.
790 0.811 ITEM9	0.662	0.682	0.692	0.745	0.798	0.
808 0.828 ITEM10	0.526	0.552	0.565	0.633	0.702	0.
715 0.740 ITEM11	0.473	0.501	0.515	0.589	0.663	0.
677 0.705 ITEM12	0.130	0.168	0.187	0.288	0.389	0.
408 0.446						
Variances FACTOR1 000 1.000	1.000	1.000	1.000	1.000	1.000	1.
Residual Varianc ITEM1 627 0.658	es 0.395	0.427	0.443	0.527	0.611	0.
ITEM2 640 0.672	0.407	0.438	0.454	0.539	0.624	0.
ITEM3	0.527	0.559	0.576	0.663	0.750	0.
767 0.799 ITEM4	0.504	0.537	0.553	0.640	0.728	0.
744 0.777 ITEM5	0.348	0.378	0.394	0.475	0.556	0.
571 0.602 ITEM6	0.357	0.388	0.404	0.485	0.567	0.
583 0.613 ITEM7	0.504	0.537	0.554	0.641	0.728	0.
744 0.777 ITEM8	0.349	0.380	0.395	0.476	0.558	0.
573 0.603 ITEM9	0.321	0.351	0.366	0.445	0.523	0.
538 0.568 ITEM10	0.463	0.496	0.512	0.599	0.685	0.
702 0.734 ITEM11	0.517	0.549	0.566	0.653	0.740	0.
757 0.789						
986 1.008	0.826	0.848	0.859	0.917	0.975	0.

 $\begin{tabular}{ll} C:\Users\agibbons\Documents\Teaching\PSY 600K - Spring 2012\lab 10 test.out \\ \end{tabular}$

STDY Standardizat	ion					
2.5% Upper .5%	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper
FACTOR1 BY ITEM1	0.592	0.615	0.627	0.688	0.749	0.
761 0.784 ITEM2	0.581	0.605	0.617	0.679	0.741	0.
753 0.776 ITEM3	0.463	0.491	0.505	0.580	0.655	0.
0.698						
ITEM4 686 0.713	0.486	0.513	0.527	0.600	0.672	0.
ITEM5 791 0.812	0.637	0.658	0.669	0.725	0.781	0.
ITEM6 785 0.807	0.628	0.650	0.661	0.717	0.774	0.
ITEM7 686 0.713	0.486	0.513	0.527	0.599	0.672	0.
ITEM8	0.636	0.657	0.668	0.724	0.780	0.
ITEM9	0.662	0.682	0.692	0.745	0.798	0.
808 0.828 ITEM10	0.526	0.552	0.565	0.633	0.702	0.
715 0.740 ITEM11	0.473	0.501	0.515	0.589	0.663	0.
677 0.705 ITEM12	0.130	0.168	0.187	0.288	0.389	0.
408 0.446						
Variances FACTOR1 000 1.000	1.000	1.000	1.000	1.000	1.000	1.
Residual Variance		0.407	0.442	0. 507	0 611	0
ITEM1 0.658	0.395	0.427	0.443	0.527		0.
ITEM2 640 0.672	0.407	0.438	0.454	0.539	0.624	0.
ITEM3 767 0.799	0.527	0.559	0.576	0.663	0.750	0.
TEM4 744 0.777	0.504	0.537	0.553	0.640	0.728	0.
ITEM5 571 0.602	0.348	0.378	0.394	0.475	0.556	0.
ITEM6	0.357	0.388	0.404	0.485	0.567	0.
583 0.613 ITEM7	0.504	0.537	0.554	0.641	0.728	0.
744 0.777 ITEM8	0.349	0.380	0.395	0.476	0.558	0.
573 0.603 ITEM9	0.321	0.351	0.366	0.445	0.523	0.
538 0.568 ITEM10	0.463	0.496	0.512	0.599	0.685	0.
702 0.734 ITEM11	0.517	0.549	0.566	0.653	0.740	0.
757 0.789						
ITEM12 986 1.008	0.826	0.848	0.859	0.917	0.975	0.

STD	Standardization
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2.5% Upper .5%	Lower .5%	Lower 2.5%	Lower 5%	Estimate	Upper 5%	Upper
FACTOR1 BY ITEM1	0.538	0.574	0.592	0.686	0.781	0.
799 0.835 ITEM2	0.529	0.564	0.582	0.678	0.773	0.
791 0.826	0.424	0.461	0.480	0.579	0.678	0.
ITEM3 697 0.734						
ITEM4 716 0.752	0.444	0.481	0.500	0.598	0.697	0.
ITEM5 834 0.869	0.578	0.612	0.630	0.723	0.816	0.
ITEM6 827 0.862	0.570	0.605	0.623	0.716	0.809	0.
ITEM7 715 0.752	0.444	0.481	0.500	0.598	0.697	0.
ITEM8 833 0.868	0.577	0.611	0.629	0.722	0.815	0.
ITEM9 853 0.888	0.600	0.634	0.652	0.744	0.836	0.
ITEM10	0.480	0.517	0.535	0.632	0.729	0.
748 0.784 ITEM11	0.433	0.470	0.489	0.588	0.687	0.
705 0.742 ITEM12	0.120	0.160	0.181	0.287	0.394	0.
415 0.455						
Variances FACTOR1 000 1.000	1.000	1.000	1.000	1.000	1.000	1.
Residual Variano	es					
ITEM1 627 0.659	0.391	0.423	0.439	0.525	0.610	0.
ITEM2 641 0.673	0.400	0.433	0.450	0.537	0.624	0.
ITEM3 783 0.822	0.499	0.538	0.558	0.660	0.763	0.
ITEM4 757 0.794	0.481	0.519	0.538	0.638	0.738	0.
ITEM5	0.349	0.379	0.394	0.473	0.552	0.
567 0.597 ITEM6	0.357	0.387	0.403	0.483	0.564	0.
579 0.609 ITEM7	0.481	0.519	0.538	0.638	0.738	0.
757 0.795 ITEM8	0.350	0.380	0.395	0.475	0.554	0.
569 0.599 ITEM9	0.325	0.353	0.367	0.443	0.518	0.
533 0.561 ITEM10	0.448	0.484	0.502	0.596	0.691	0.
709 0.745 ITEM11	0.491	0.529	0.549	0.650	0.752	0.
772 0.810	0.491	0.329	0.049	0.050	0.752	

ITEM12	2	0.701	0.752	0.778	0.913	1.049	1.
075	1.126						

RESIDUAL OUTPUT

ESTIMATED MODEL AND RESIDUALS (OBSERVED - ESTIMATED)

	Model Estimated	Covariances	/Correlations/F	Residual Correl	Lations
	ITEM1	ITEM2	ITEM3	ITEM4	ITEM5
ITEM1	0.996				
ITEM2	0.465	0.996			
ITEM3	0.398	0.392	0.996		
ITEM4	0.411	0.405	0.347	0.996	
ITEM5	0.496	0.490	0.419	0.433	0.996
ITEM6	0.492	0.485	0.415	0.428	0.518
ITEM7	0.411	0.405	0.347	0.358	0.433
ITEM8	0.496	0.489	0.418	0.432	0.522
ITEM9	0.511	0.504	0.431	0.445	0.538
ITEM10	0.434	0.428	0.366	0.378	0.457
ITEM11	0.404	0.398	0.341	0.352	0.425
ITEM12	0.197	0.195	0.167	0.172	0.208

	Model Estimated ITEM6	Covariances ITEM7	s/Correlations/Re ITEM8	esidual Correl ITEM9	ations ITEM10
ITEM6	0.996				
ITEM7	0.428	0.996			
ITEM8	0.517	0.432	0.996		
ITEM9	0.533	0.445	0.537	0.996	
ITEM10	0.453	0.378	0.456	0.470	0.996
ITEM11	0.421	0.352	0.424	0.437	0.372
ITEM12	0.206	0.172	0.208	0.214	0.182

Model Estimated Covariances/Correlations/Residual Correlations ITEM11 ITEM12 _____

ITEM11	0.996	
ITEM12	0.169	0.996

	Residuals for	Covariances/Co	rrelations/Res	sidual Correlat	ions
	ITEM1	ITEM2	ITEM3	ITEM4	ITEM5
ITEM1	0.000				
ITEM2	0.083	0.000			
ITEM3	-0.079	-0.104	0.000		
ITEM4	-0.132	-0.097	0.171	0.000	
ITEM5	0.081	-0.012	-0.090	-0.144	0.000
ITEM6	0.106	0.063	-0.106	-0.130	0.060
ITEM7	-0.082	-0.057	0.211	0.279	-0.144
ITEM8	0.002	0.019	-0.120	-0.133	0.205
ITEM9	0.047	0.094	-0.092	-0.047	0.030
ITEM10	-0.075	-0.060	0.281	0.309	-0.069
ITEM11	-0.125	-0.080	0.237	0.276	-0.126

ITEM12	-0.018	0.004	-0.017	-0.003	-0.019
	Residuals for		orrelations/Re:	sidual Correlat	tions
	ITEM6	ITEM7	ITEM8	ITEM9	ITEM10
ITEM6	0.000				
ITEM7	-0.040	0.000			
ITEM8	0.041	-0.133	0.000		
ITEM9	0.065	-0.146	0.100	0.000	
ITEM10	-0.164	0.209	-0.158	-0.072	0.000
ITEM11	-0.072	0.246	-0.066	-0.128	0.166
ITEM12	0.033	0.047	0.041	-0.064	-0.002
	Residuals for ITEM11	Covariances/Co	orrelations/Re	sidual Correlat	tions
ITEM11	0.000				
ITEM12	0.020	0.000			
Corr	Scandardized K	esiduais (2-so	coles) for cov	ariances/Correl	racions/ vesi
	ITEM1	ITEM2	ITEM3	ITEM4	ITEM5
ITEM1	0.015	ITEM2	ITEM3	ITEM4	ITEM5
ITEM1 ITEM2		0.015	ITEM3	ITEM4 ————	ITEM5
	0.015		0.019	ITEM4 	ITEM5
ITEM2	0.015 2.363	0.015		0.019	ITEM5
ITEM2 ITEM3	0.015 2.363 -2.587	0.015 -3.436	0.019		999.000
ITEM2 ITEM3 ITEM4	0.015 2.363 -2.587 -4.835	0.015 -3.436 -3.286	0.019 3.766	0.019	
ITEM2 ITEM3 ITEM4 ITEM5	0.015 2.363 -2.587 -4.835 2.450	0.015 -3.436 -3.286 -0.440	0.019 3.766 -3.312	0.019 -6.120	999.000
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6	0.015 2.363 -2.587 -4.835 2.450 3.018	0.015 -3.436 -3.286 -0.440 1.929	0.019 3.766 -3.312 -3.913	0.019 -6.120 -5.212	999.000 1.960
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788	0.015 -3.436 -3.286 -0.440 1.929 -1.822	0.019 3.766 -3.312 -3.913 4.462	0.019 -6.120 -5.212 5.557	999.000 1.960 -6.113
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637	0.019 -6.120 -5.212 5.557 -5.524 -1.730	999.000 1.960 -6.113 5.001 1.107
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040	0.019 3.766 -3.312 -3.913 4.462 -4.606	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037	999.000 1.960 -6.113 5.001 1.107 -2.682
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625	0.019 -6.120 -5.212 5.557 -5.524 -1.730	999.000 1.960 -6.113 5.001 1.107
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482 -0.058	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482 -0.058	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440 Standardized R	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106 esiduals (z-so	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482 -0.058	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440 Standardized R	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106 esiduals (z-so	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482 -0.058	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486
ITEM2 ITEM3 ITEM4 ITEM5 ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM11 ITEM12	0.015 2.363 -2.587 -4.835 2.450 3.018 -2.788 0.082 1.583 -2.701 -4.420 -0.440 Standardized R	0.015 -3.436 -3.286 -0.440 1.929 -1.822 0.641 2.799 -2.040 -2.593 0.106 esiduals (z-so	0.019 3.766 -3.312 -3.913 4.462 -4.606 -3.637 5.625 4.859 -0.362	0.019 -6.120 -5.212 5.557 -5.524 -1.730 6.037 5.482 -0.058	999.000 1.960 -6.113 5.001 1.107 -2.682 -5.045 -0.486

ITEM6 ITEM7 ITEM8 ITEM9 ITEM10 ITEM6 0.000 0.019 0.	Comm	bodiidararroa i	(2 5	oros, for ostarranoss, sorrorastons, nosr			
ITEM7 -1.357 0.019 ITEM8 1.397 -5.518 999.000 ITEM9 2.161 -6.880 3.070 0.050 ITEM10 -7.912 4.557 -7.734 -3.025 0.01 ITEM11 -2.558 5.037 -2.346 -5.605 3.77	Corr	ITEM6	ITEM7	ITEM8	ITEM9	ITEM10	
ITEM8 1.397 -5.518 999.000 ITEM9 2.161 -6.880 3.070 0.050 ITEM10 -7.912 4.557 -7.734 -3.025 0.01 ITEM11 -2.558 5.037 -2.346 -5.605 3.77	ITEM6	0.000					
ITEM9 2.161 -6.880 3.070 0.050 ITEM10 -7.912 4.557 -7.734 -3.025 0.01 ITEM11 -2.558 5.037 -2.346 -5.605 3.77	ITEM7	-1.357	0.019				
ITEM10 -7.912 4.557 -7.734 -3.025 0.01 ITEM11 -2.558 5.037 -2.346 -5.605 3.77	ITEM8	1.397	-5.518	999.000			
ITEM11 -2.558 5.037 -2.346 -5.605 3.77	ITEM9	2.161	-6.880	3.070	0.050		
	ITEM10	-7.912	4.557	-7.734	-3.025	0.018	
ITEM12 0.831 0.997 1.042 -1.798 -0.05	ITEM11	-2.558	5.037	-2.346	-5.605	3.775	
	ITEM12	0.831	0.997	1.042	-1.798	-0.054	

Standardized Residuals (z-scores) for Covariances/Correlations/Residual ITEM11 ITEM12

0.019 0.428 0.010 ITEM11 ITEM12

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Corr

					al Correlations
	ITEM1	ITEM2	ITEM3	ITEM4	ITEM5
ITEM1	0.000				
ITEM2	1.150	0.000			
ITEM3	-1.194	-1.580	0.000		
ITEM4	-2.017	-1.466	2.413	0.000	
ITEM5	1.115	-0.170	-1.360	-2.194	0.000
ITEM6	1.444	0.872	-1.607	-1.972	0.822
ITEM7	-1.237	-0.850	2.925	3.736	-2.193
ITEM8	0.032	0.264	-1.817	-2.027	2.627
ITEM9	0.653	1.275	-1.386	-0.688	0.411
ITEM10	-1.126	-0.890	3.743	4.037	-1.016
ITEM11	-1.906	-1.203	3.257	3.703	-1.920
ITEM12	-0.282	0.069	-0.269	-0.042	-0.291

	Normalized Res	iduals for Cov ITEM7	ariances/Corre	elations/Residual ITEM9	Correlations ITEM10
ITEM6	0.000				
ITEM7	-0.591	0.000			
ITEM8	0.564	-2.026	0.000		
ITEM9	0.885	-2.223	1.341	0.000	
ITEM10	-2.497	2.864	-2.398	-1.058	0.000
ITEM11	-1.083	3.347	-0.985	-1.948	2.322
ITEM12	0.513	0.731	0.638	-1.011	-0.038

Normalized Residuals for Covariances/Correlations/Residual Correlations

ITEM12

0.000
0.316
0.000

Beginning Time: 16:44:04 Ending Time: 16:44:04 Elapsed Time: 00:00:00

MUTHEN & MUTHEN 3463 Stoner Ave. Los Angeles, CA 90066

ITEM11

ITEM12

Tel: (310) 391-9971 Fax: (310) 391-8971 Web: www.StatModel.com

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