

MPlus (Diagrammer)

Exercise 1

data1factors_mplus.inp

TITLE: Exercise 1

DATA:

FILE = datafactors_imputation_seriesmean.dat;

VARIABLE:

NAMES = kj_enc1 sj_str2 op_rew3 ok_dev4
tk_inv5 ts_cla6 ta_val7 vk_rel8 rh_tes9
tr_psy11 tv_buil2 si_com13;

USEVARIABLES = kj_enc1 op_rew3 tk_inv5 ts_cla6 ta_val7;

MODEL:

ta_val7 ON kj_enc1 op_rew3 tk_inv5 ts_cla6;

OUTPUT:

STANDARDIZED; #produces also standardized results

data1_factors_mplus.out

MODEL RESULTS

	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
TA_VAL7 ON				
KJ_ENC1	0.380	0.047	8.097	0.000
OP_REW3	0.090	0.042	2.132	0.033
TK_INV5	0.231	0.040	5.793	0.000
TS_CLA6	0.079	0.042	1.849	0.064
Intercepts				
TA_VAL7	0.950	0.139	6.808	0.000
Residual Variances				
TA_VAL7	0.363	0.024	14.950	0.000

STANDARDIZED MODEL RESULTS

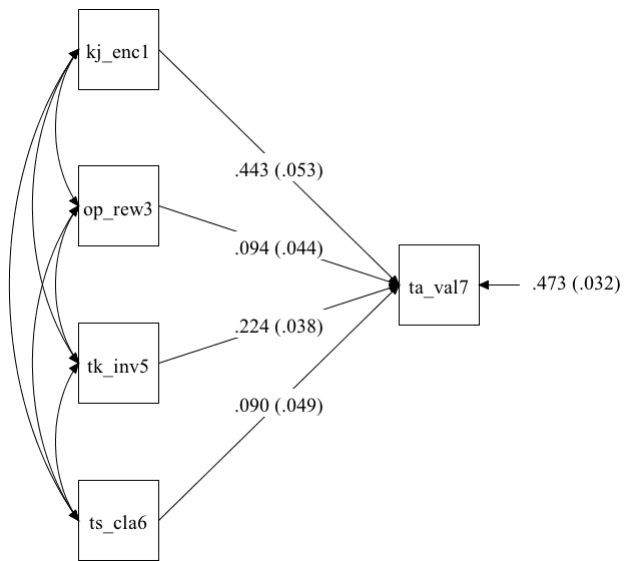
	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
TA_VAL7 ON				
KJ_ENC1	0.443	0.053	8.360	0.000
OP_REW3	0.094	0.044	2.135	0.033
TK_INV5	0.224	0.038	5.844	0.000
TS_CLA6	0.090	0.049	1.851	0.064
Intercepts				
TA_VAL7	1.084	0.184	5.908	0.000
Residual Variances				
TA_VAL7	0.473	0.032	14.562	0.000

R-SQUARE

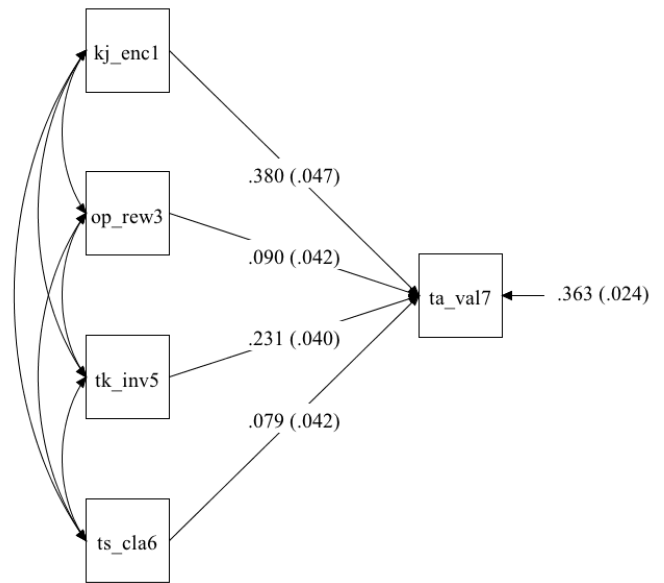
Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
TA_VAL7	0.527	0.032	16.222	0.000

data1factors_mplus.dgm

Standardized results



Unstandardized results



Exercise 2

data1_mplus.inp

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TITLE: Exercise 2
DATA:
      FILE = data1_imputation_seriesmean.dat;
VARIABLE:
      NAMES = v1 v2 v3 v4 v5 v6 v7 v8 v9 v12 v13
            v14 v15 v16 v17 v18 v29 v30 v31 v33 v34 v42r
            v43 v44 v45 v46 v47;
      USEVARIABLES = v5 v7 v17 v42r v43 v44 v45;
MODEL:
      ENC BY v5* v7 v17@1; !v17 variance fixed to 1
      BUI BY v42r v43;
      PSY BY v44 v45;
      PSY ON ENC BUI;
      ENC WITH BUI;

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data1_mplus.out

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Chi-Square Test of Model Fit
      Value                                61.531
      Degrees of Freedom                    11
      P-Value                               0.0000
RMSEA (Root Mean Square Error Of Approximation)
      Estimate                             0.101
      90 Percent C.I.                      0.078 0.127
      Probability RMSEA <= .05             0.000
CFI/TLI
      CFI                                  0.955
      TLI                                  0.914
SRMR (Standardized Root Mean Square Residual)
      Value                                 0.062

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MODEL RESULTS

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
ENC	BY				
	V5	0.897	0.048	18.876	0.000
	V7	0.764	0.043	17.652	0.000
	V17	1.000	0.000	999.000	999.000
BUI	BY				
	V42R	1.000	0.000	999.000	999.000
	V43	0.780	0.087	8.928	0.000
PSY	BY				
	V44	1.000	0.000	999.000	999.000
	V45	0.589	0.068	8.644	0.000
PSY	ON				
	ENC	-0.098	0.064	-1.536	0.124
	BUI	1.226	0.154	7.984	0.000
ENC	WITH				
	BUI	-0.254	0.061	-4.138	0.000
Intercepts					
	V5	3.817	0.056	68.515	0.000
	V7	3.432	0.050	68.008	0.000
	V17	3.280	0.057	57.472	0.000
	V42R	2.991	0.055	54.675	0.000
	V43	3.800	0.051	74.951	0.000
	V44	3.278	0.059	55.883	0.000
	V45	2.388	0.057	42.130	0.000
Variances					
	ENC	1.143	0.104	10.970	0.000
	BUI	0.603	0.098	6.174	0.000
Residual Variances					
	V5	0.467	0.046	10.081	0.000
	V7	0.472	0.041	11.580	0.000
	V17	0.313	0.047	6.594	0.000
	V42R	0.735	0.080	9.209	0.000

V43	0.782	0.065	12.062	0.000
V44	0.285	0.120	2.382	0.017
V45	1.001	0.079	12.750	0.000
PSY	0.275	0.133	2.057	0.040

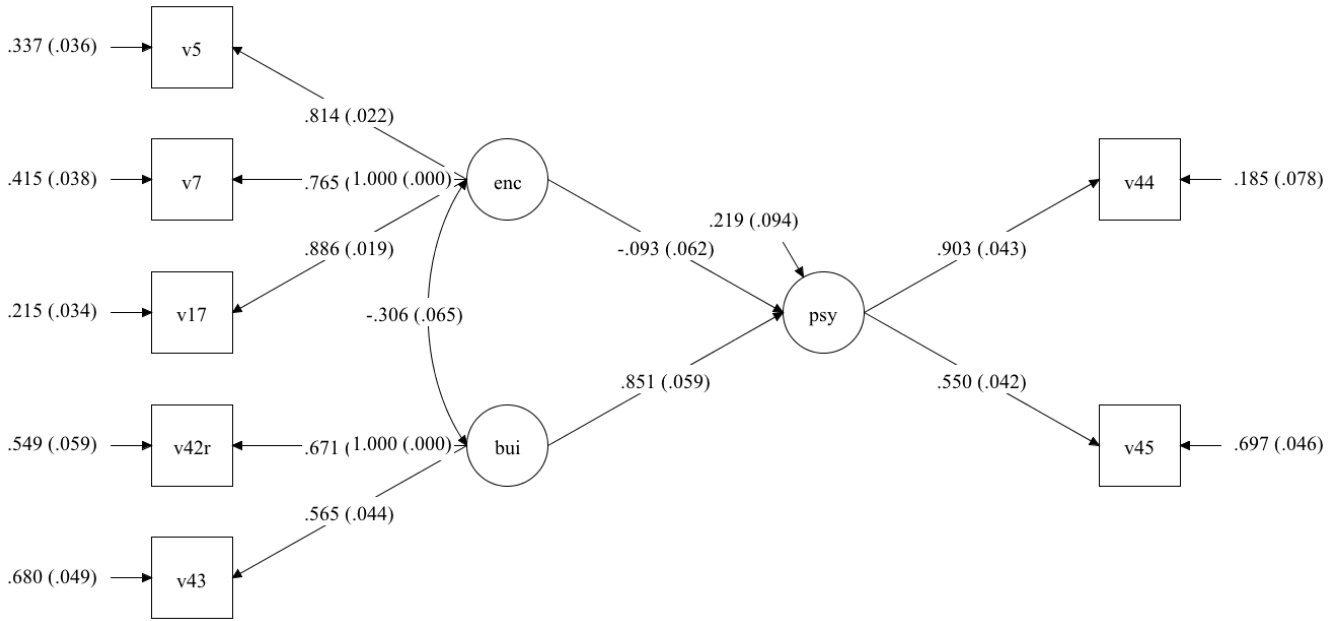
STANDARDIZED MODEL RESULTS

		Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
ENC	BY				
	V5	0.814	0.022	37.037	0.000
	V7	0.765	0.025	31.144	0.000
	V17	0.886	0.019	45.730	0.000
BUI	BY				
	V42R	0.671	0.044	15.410	0.000
	V43	0.565	0.044	12.961	0.000
PSY	BY				
	V44	0.903	0.043	20.768	0.000
	V45	0.550	0.042	13.112	0.000
PSY	ON				
	ENC	-0.093	0.062	-1.502	0.133
	BUI	0.851	0.059	14.473	0.000
ENC	WITH				
	BUI	-0.306	0.065	-4.680	0.000
Intercepts					
	V5	3.241	0.118	27.404	0.000
	V7	3.217	0.118	27.371	0.000
	V17	2.718	0.102	26.525	0.000
	V42R	2.586	0.099	26.233	0.000
	V43	3.545	0.128	27.772	0.000
	V44	2.643	0.100	26.363	0.000
	V45	1.993	0.082	24.383	0.000
Variances					
	ENC	1.000	0.000	999.000	999.000
	BUI	1.000	0.000	999.000	999.000
Residual Variances					
	V5	0.337	0.036	9.407	0.000
	V7	0.415	0.038	11.028	0.000
	V17	0.215	0.034	6.256	0.000
	V42R	0.549	0.059	9.385	0.000
	V43	0.680	0.049	13.789	0.000
	V44	0.185	0.078	2.364	0.018
	V45	0.697	0.046	15.099	0.000
	PSY	0.219	0.094	2.331	0.020

R-SQUARE

Observed Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
V5	0.663	0.036	18.519	0.000
V7	0.585	0.038	15.572	0.000
V17	0.785	0.034	22.865	0.000
V42R	0.451	0.059	7.705	0.000
V43	0.320	0.049	6.480	0.000
V44	0.815	0.078	10.384	0.000
V45	0.303	0.046	6.556	0.000
Latent Variable	Estimate	S.E.	Est./S.E.	Two-Tailed P-Value
PSY	0.781	0.094	8.308	0.000

data1_mplus.dgm
Standardized results



Unstandardized results

