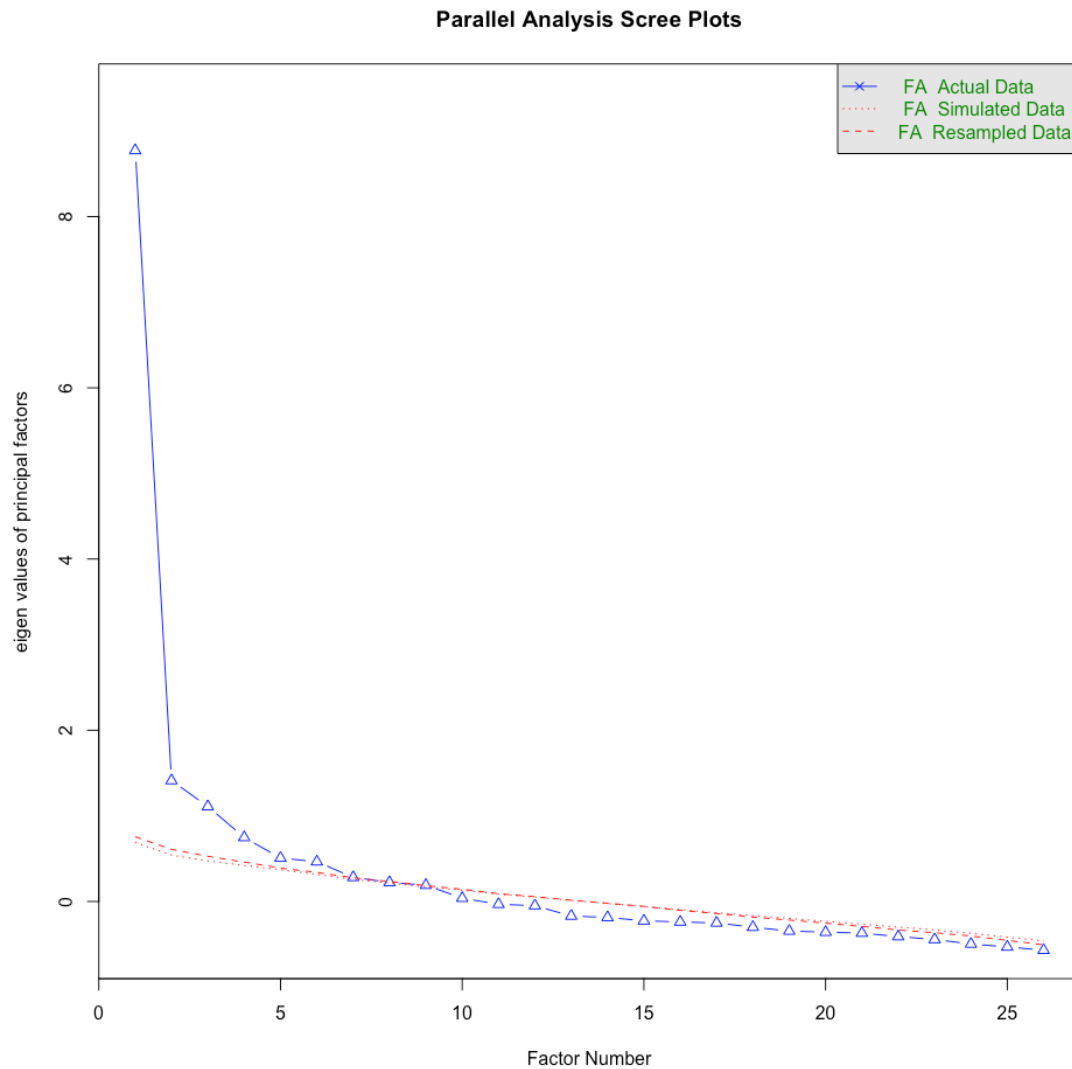


5.3.4a Validity Results: Meaningful Activity



Parallel analysis suggests that the number of factors = 6

Factor Analysis

Bifactor model with one primary factor (ML1) and 6 subfactors (ML2 through ML7)

Standardized loadings (pattern matrix) based upon correlation matrix

	ML1	ML2	ML4	ML3	ML6	ML5	ML7	h2	u2	com
MA_G1	0.32	0.22	0.17	0.23	0.09	-0.19	0.13	0.30	0.704	4.8
MA_G2	0.47	0.01	0.22	0.35	-0.07	-0.09	0.03	0.41	0.590	2.5
MA_S1	0.41	0.01	-0.36	0.02	0.05	0.16	0.11	0.34	0.660	2.5
MA_S2	0.57	-0.04	0.08	0.33	0.24	-0.17	0.07	0.53	0.470	2.4
MA_S3	0.60	0.10	-0.01	0.30	0.21	-0.01	0.06	0.51	0.492	1.9
MA_S4	0.68	-0.04	0.00	0.71	-0.02	0.02	-0.03	0.96	0.037	2.0
MA_S5	0.32	0.06	-0.25	-0.20	0.25	0.13	-0.02	0.29	0.711	4.0
MA_S6	0.55	0.00	-0.02	-0.02	0.61	-0.01	0.02	0.68	0.322	2.0
MA_S7	0.52	0.12	-0.02	0.02	0.61	0.08	-0.05	0.67	0.330	2.1
MA_S8	0.63	-0.09	0.08	0.24	0.25	-0.13	-0.06	0.55	0.454	1.8
MA_S9	0.33	0.64	-0.19	-0.09	0.00	0.21	-0.07	0.61	0.390	2.0
MA_S10	0.55	0.42	0.19	0.03	0.03	-0.16	-0.02	0.54	0.463	2.4
MA_S11	0.47	0.88	0.02	0.01	0.04	-0.01	0.02	1.00	0.005	1.5
MA_S12	0.62	0.34	0.13	0.15	-0.07	-0.17	-0.10	0.59	0.414	2.1
MA_S13	0.46	0.05	0.03	-0.01	0.04	0.72	0.01	0.73	0.266	1.7
MA_S14	0.64	-0.09	0.47	-0.02	0.08	0.08	0.02	0.65	0.354	2.0
MA_S15	0.61	-0.12	0.32	0.01	-0.04	0.14	-0.11	0.52	0.483	1.8
MA_S16	0.74	-0.06	0.49	0.02	-0.14	0.05	-0.09	0.82	0.175	1.9
MA_S17	0.53	-0.04	-0.41	-0.17	-0.06	0.06	-0.05	0.49	0.506	2.2
MA_S18	0.67	-0.12	-0.22	-0.20	-0.10	-0.19	-0.03	0.59	0.406	1.7
MA_S19	0.65	-0.07	-0.25	-0.24	-0.15	-0.13	0.04	0.59	0.407	1.9
MA_S20	0.71	-0.12	-0.07	-0.15	-0.26	-0.26	-0.09	0.69	0.311	1.8
MA_S21	0.49	0.08	-0.14	-0.01	0.03	0.38	0.38	0.55	0.453	3.1
MA_S22	0.64	-0.05	-0.02	-0.03	-0.01	0.02	0.64	0.82	0.175	2.0
MA_S23	0.56	0.00	0.00	0.08	-0.07	-0.01	0.35	0.45	0.549	1.8
MA_S24	0.70	-0.10	0.13	0.04	-0.14	-0.17	0.17	0.60	0.404	1.5

	ML1	ML2	ML4	ML3	ML6	ML5	ML7
SS loadings	8.37	1.65	1.25	1.17	1.15	1.07	0.80
Proportion Var	0.32	0.06	0.05	0.04	0.04	0.04	0.03
Cumulative Var	0.32	0.39	0.43	0.48	0.52	0.56	0.59
Proportion Explained	0.54	0.11	0.08	0.08	0.07	0.07	0.05
Cumulative Proportion	0.54	0.65	0.73	0.80	0.88	0.95	1.00

Mean item complexity = 2.2

Test of the hypothesis that 7 factors are sufficient.

df null model = 325 with the objective function = 15.32 with Chi Square = 3538.35

df of the model are 164 and the objective function was 2.2

The root mean square of the residuals (RMSR) is 0.04

The df corrected root mean square of the residuals is 0.05

The harmonic n.obs is 241 with the empirical chi square 225.45 with prob < 0.001

The total n.obs was 241.4615 with Likelihood Chi Square = 497.09 with prob < 3.1e-35

Tucker Lewis Index of factoring reliability = 0.79

RMSEA index = 0.092 and the 90 % confidence intervals are 0.083 0.101

BIC = -402.73

Fit based upon off diagonal values = 0.99

Measures of factor score adequacy

	ML1	ML2	ML4	ML3	ML6	ML5
Correlation of (regression) scores with factors	0.98	0.99	0.88	0.95	0.87	0.87
Multiple R square of scores with factors	0.95	0.98	0.77	0.90	0.76	0.76
Minimum correlation of possible factor scores	0.91	0.96	0.53	0.80	0.52	0.52
	ML7					
Correlation of (regression) scores with factors	0.86					
Multiple R square of scores with factors	0.74					
Minimum correlation of possible factor scores	0.48					