

Information Generated During Analyses of Habits of Mind Data

1. Correlation tables for items related to six types of Habits of Mind.

1.1 Aesthetic Habits of Mind

	Q7	Q16	Q21	Q30	Q39	Q41	Q45	Q50	Q57	Q64
Q7	1									
Q16	0.246	1								
Q21	0.111	0.153	1							
Q30	-0.029	0.258	0.474	1						
Q39	-0.092	0.107	0.305	0.252	1					
Q41	0.069	0.161	0.526	0.619	0.294	1				
Q45	0.0003	0.112	0.256	0.156	0.669	0.229	1			
Q50	0.271	0.241	0.109	0.028	0.15	0.064	0.216	1		
Q57	-0.216	-0.058	0.111	0.068	0.191	0.102	0.015	-0.056	1	
Q64	0.023	0.135	-0.122	-0.054	-0.033	-0.04	0.043	0.2	-0.092	1

1.2 Epistemic Habits of Mind

	Q3	Q5	Q8	Q10	Q12	Q23	Q27	Q29	Q32	Q35
Q3	1									
Q5	-0.011	1								
Q8	-0.008	0.592	1							
Q10	0.069	0.005	0.057	1						
Q12	0.014	0.486	0.526	0.174	1					
Q23	0.29	-0.042	-0.118	0.008	-0.02	1				
Q27	0.364	-0.02	-0.089	-0.007	-0.044	0.301	1			
Q29	-0.054	0.141	0.149	0.048	0.072	0.011	-0.14	1		
Q32	0.099	0.093	0.094	0.287	0.108	0.142	0.097	0.009	1	
Q35	0.008	0.535	0.508	0.105	0.395	-0.1	-0.02	0.215	0.092	1

1.3 Moral-Ethical Habits of Mind

	Q11	Q56	Q19	Q24	Q54	Q60	Q43	Q48	Q52	Q58
Q11	1									
Q56	0.126	1								
Q19	0.126	-0.082	1							
Q24	0.199	-0.047	0.519	1						
Q54	0.243	-0.047	0.565	0.494	1					
Q60	0.257	-0.043	0.461	0.535	0.51	1				
Q43	0.105	-0.213	0.104	0.154	-0.003	0.158	1			
Q48	0.05	-0.221	0.122	0.111	-0.004	0.081	0.518	1		
Q52	0.131	-0.165	0.126	0.125	0.011	0.119	0.504	0.506	1	
Q58	0.176	-0.171	0.08	0.162	0.051	0.19	0.53	0.417	0.526	1

1.4 Philosophical Habits of Mind

	Q15	Q18	Q26	Q31	Q33	Q38	Q40	Q42	Q44	Q47
Q15	1									
Q18	0.281	1								
Q26	-0.122	0.109	1							
Q31	0.201	0.338	-0.107	1						
Q33	0.234	0.143	0.245	0.191	1					
Q38	0.148	0.193	0.124	0.261	0.206	1				
Q40	0.078	0.277	0.524	0.083	0.386	0.181	1			
Q42	0.071	0.136	0.118	0.21	0.157	0.57	0.172	1		
Q44	0.109	0.198	0.069	0.124	0.042	-0.04	0.017	-0.094	1	
Q47	-0.064	0.092	0.532	-0.11	0.197	0.142	0.422	0.206	-0.13	1

1.5 Psychological Habits of Mind

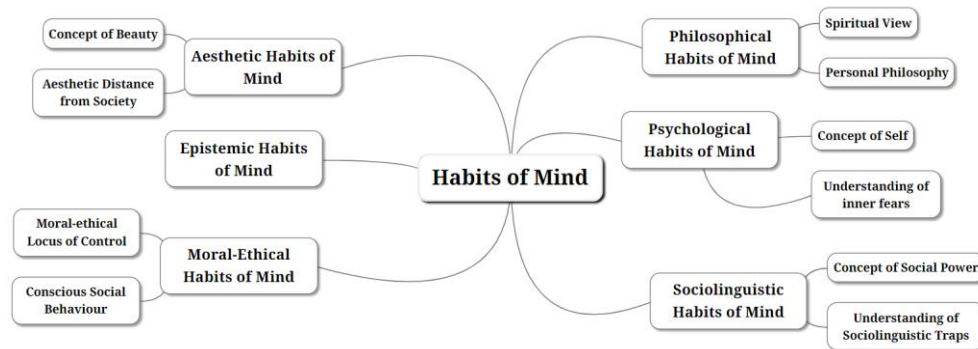
	Q2	Q4	Q6	Q13	Q17	Q20	Q22	Q25	Q28	Q34
Q2	1									
Q4	0.272	1								
Q6	0.224	0.099	1							
Q13	0.457	0.118	0.252	1						
Q17	0.534	0.083	0.26	0.494	1					
Q20	0.27	0.571	0.24	0.22	0.214	1				
Q22	0.178	0.447	0.278	0.128	0.2	0.67	1			
Q25	0.539	0.193	0.209	0.513	0.578	0.286	0.257	1		
Q28	0.325	0.083	0.452	0.322	0.283	0.218	0.232	0.239	1	
Q34	0.317	0.55	0.103	0.176	0.2	0.487	0.446	0.261	0.142	1

1.6 Sociolinguistic Habits of Mind

	Q9	Q14	Q49	Q63	Q1	Q59	Q61	Q36	Q51	Q55
Q9	1									
Q14	0.189	1								
Q49	0.129	0.023	1							
Q63	0.192	0.179	0.021	1						
Q1	-0.068	0.079	0.012	-0.103	1					
Q59	-0.144	0.087	-0.229	-0.056	0.428	1				
Q61	-0.189	0.01	-0.097	-0.196	0.583	0.468	1			
Q36	-0.037	-0.058	0.061	-0.095	0.191	0.132	0.278	1		
Q51	0.068	0.025	0.04	-0.024	0.234	0.171	0.268	0.511	1	
Q55	0.066	0.044	0.141	-0.08	0.239	0.164	0.174	0.554	0.528	1

2. Information related to results of Exploratory Factor Analyses (EFA) and model fit procedures

2.1 Factors retained after EFA and CB-SEM analyses



2.2 Factor Codes

Habit of Mind	Factor Name	Factor Code
Aesthetic	Concept of Beauty	AES_1
Aesthetic	Aesthetic Distance from Society	AES_2
Epistemic	Epistemic	EPI
Moral-Ethical	Moral-Ethical Locus of Control	MEL_1
Moral-Ethical	Conscious Social Behaviour	MEL_2
Philosophical	Spiritual View	PHI_1
Philosophical	Personal Philosophy	PHI_2
Psychological	Understanding of Inner Fears	PSY_1
Psychological	Concept of Self	PSY_2
Sociolinguistic	Concept of Social Power	SLN_1
Sociolinguistic	Understanding of Sociolinguistic Traps	SLN_2

2.3 Summary of EFA procedure for every HoM.

Type of Habit of Mind	KMO Measure	Results of Bartlett's Test of Sphericity	Factors Retained	Variance Explained by Retained Factors
Aesthetic	0.66	Chi Sq: 673.8325 p-Value: 4.702263e-113 Degrees of freedom: 45	2 of 3	0.602
Epistemic*	0.78	Chi Sq: 772.8954 p-Value: 2.736996e-127 Degrees of freedom: 55	1 of 3	0.519
Moral-Ethical*	0.83	Chi Sq: 1056.572 p-Value: 2.675474e-185 Degrees of freedom: 55	2 of 3	0.515
Philosophical	0.68	Chi Sq: 625.3073 p-Value: 3.264755e-103 Degrees of freedom: 45	2 of 3	0.56
Psychological	0.85	Chi Sq: 1354.92 p-Value: 9.373641e-240 Degrees of freedom: 66	2 of 3	0.532
Sociolinguistic	0.7	Chi Sq: 623.9331 p-Value: 6.191211e-103 Degrees of freedom: 45	2 of 3	0.518

* Single-item factor(s) were discarded after careful consideration

2.4 Factor wise loadings

Factor Codes and Items	Loading	Factor Codes and Items	Loading	Factor Codes and Items	Loading
<i>AES_1</i>		<i>MEL_1</i>		<i>MEL_2</i>	
Q1	0.5991	Q11	0.7268	Q11	-0.0033
Q2	0.7882	Q12	0.6739	Q12	0.0075
Q3	0.7958	Q13	0.7292	Q13	-0.0107
Q4	0.0145	Q14	0.7	Q14	-0.0101
Q5	0.0218	Q15	0.7454	Q15	0.0186
<i>AES_2</i>		Q16	0.0308	Q16	0.7733
Q1	0.094	Q17	0.0713	Q17	0.6795
Q2	-0.0343	Q18	-0.1228	Q18	0.7597
Q3	0.0092	Q19	0.0745	Q19	0.6408
Q4	0.7035	<i>PHI_1</i>		<i>PHI_2</i>	
Q5	0.947	Q20	0.7997	Q20	-0.0259
<i>EPI</i>		Q21	0.6752	Q21	-0.003
Q6	0.7621	Q22	0.6465	Q22	0.1281
Q7	0.7681	Q23	0.0185	Q23	0.6694
Q8	0.6507	Q24	0.0101	Q24	0.8232
Q9	0.6864				
Q10	0.7292				

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Factor Codes and Items	Loading	Factor Codes and Items	Loading
<i>PSY_1</i>		<i>PSY_2</i>	
Q25	0.703	Q25	0.08447
Q26	0.6485	Q26	-0.0439
Q27	0.7467	Q27	-0.0584
Q28	0.739	Q28	0.05419
Q29	-0.0027	Q29	0.759
Q30	-0.02312	Q30	0.8001
Q31	-0.1049	Q31	0.7377
Q32	0.1354	Q32	0.6452
Q33	0.1648	Q33	0.6809
<i>SLN_1</i>		<i>SLN_2</i>	
Q34	0.7467	Q34	0.0005
Q35	0.6589	Q35	0.0822
Q36	0.7679	Q36	-0.0181
Q37	0.0349	Q37	0.7173
Q38	-0.0317	Q38	0.611
Q39	0.0241	Q39	0.797

2.5 Summary of distribution of factor-based scales

	Mean	SD	Min	Max	Range	Quart.1	Median	Quart.3	Skewness	Kurtosis
SLN_1	2.24	0.929	1	5	4	1.667	2	2.667	0.905	0.414
SLN_2	2.653	0.889	1	5	4	2	2.667	3	0.564	-0.377
PSY_1	3.684	0.908	1	5	4	3	3.75	4.375	-0.677	-0.176
PSY_2	3.409	1.024	1	5	4	3	3.6	4.1	-0.651	-0.377
PHI_1	2.844	1.035	1	5	4	2	2.667	3.667	0.312	-0.63
PHI_2	3.406	1.084	1	5	4	2.5	3.5	4.25	-0.413	-0.756
MEL_1	2.397	0.884	1	5	4	1.8	2.2	2.8	1.152	1.126
MEL_2	3.107	0.972	1.25	5	3.75	2.5	3	4	0.267	-0.883
EPI	4.174	0.78	1.4	5	3.6	3.7	4.2	5	-0.768	0.075
AES_1	3.66	0.906	1	5	4	3	4	4.333	-0.571	-0.549
AES_2	3.292	1.099	1	5	4	2	3.5	4	-0.144	-1.201

2.6 Model fit procedure results across six types of Habits of Mind (HoM)

	Aesthetic HoM Values	Epistemic HoM Values	Moral-Ethical HoM Values	Philosophical HoM Values	Psychological HoM Values	Sociolinguistic HoM Values
NPAR	11	10	21	11	22	13
Chi-Sq	6.2733	11.6112	28.02	7.3251	41.188	13.952
Df	4	5	24	4	23	8
CMIN/Df	1.5683	2.3222	1.1674	1.8312	1.79	1.744
p-Value	0.1796	0.0405	0.2591	0.1196	0.0112	0.083
CFI	0.9954	0.9886	0.9958	0.9906	0.984	0.9883
TLI	0.9885	0.9772	0.9937	0.9767	0.975	0.9781
AGFI	0.971	0.959	0.965	0.967	0.947	0.964
RMSEA	0.0422	0.0643	0.0229	0.051	0.0497	0.0483
SRMR	0.0296	0.024	0.0384	0.0276	0.0394	0.023

2.7 Results of Harman's Single Factor test

HoM Factor	SS Loadings	% of Variance	Cumulative %
AES	2.04	20.4	20.4
EPI	2.68	24.4	24.4
MEL	2.81	25.6	25.6
PHI	1.88	18.8	18.8
PSY	3.67	30.6	30.6
SLN	2	20	20