

Confirmatory factor analysis – 2 factor solution

Parameter estimates

Factor loadings

Factor	Indicator	Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
Professional artistry	Q19	0.625	0.013	49.440	< .001	0.600	0.649
	Q15	0.740	0.013	56.970	< .001	0.715	0.766
	Q3	0.587	0.013	44.074	< .001	0.560	0.613
	Q10	0.693	0.013	52.358	< .001	0.668	0.719
	Q35	0.591	0.013	45.107	< .001	0.565	0.616
	Q23	0.770	0.012	64.208	< .001	0.747	0.794
	Q9	0.329	0.016	20.514	< .001	0.298	0.361
	Q1	0.379	0.016	24.359	< .001	0.348	0.409
	Q33	0.302	0.016	19.067	< .001	0.271	0.333
	Q14	0.407	0.014	28.202	< .001	0.379	0.435
	Q2	0.320	0.018	17.739	< .001	0.285	0.355
	Q24	0.409	0.016	25.124	< .001	0.377	0.441
	Q6	0.646	0.013	48.773	< .001	0.620	0.672
	Q17	0.684	0.014	49.102	< .001	0.656	0.711
	Q31	0.441	0.014	30.833	< .001	0.413	0.469
	Q28	0.793	0.013	62.040	< .001	0.768	0.818
	Q5	0.503	0.014	35.982	< .001	0.475	0.530
Technical rational	Q29	0.681	0.013	54.365	< .001	0.657	0.706
	Q34	0.854	0.011	74.254	< .001	0.831	0.876
	Q13	0.309	0.015	20.106	< .001	0.279	0.339
	Q11	0.485	0.014	34.405	< .001	0.457	0.512
	Q32	0.749	0.013	57.265	< .001	0.723	0.775
	Q8	0.816	0.011	71.780	< .001	0.794	0.838
	Q12	0.379	0.015	25.944	< .001	0.350	0.407
	Q27	0.516	0.017	30.354	< .001	0.483	0.549
	Q18	0.844	0.011	74.920	< .001	0.822	0.866
	Q22	0.810	0.012	67.674	< .001	0.787	0.834
	Q26	0.576	0.015	39.493	< .001	0.547	0.605

Factor variances

Factor	Estimate	Std. Error	z-value	p	95% Confidence Interval	
					Lower	Upper
Professional artistry	1.000	0.000			1.000	1.000
Technical rational	1.000	0.000			1.000	1.000

Factor Covariances

		Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
Professional artistry	 Technical rational	-0.538	0.008	-70.442	< .001	-0.553	-0.523

Residual variances

Indicator	Estimate	Std. Error	z-value	p	95% Confidence Interval	
					Lower	Upper
Q19	0.610	0.000			0.610	0.610

Residual variances

Indicator	Estimate	Std. Error	z-value	p	95% Confidence Interval	
					Lower	Upper
Q15	0.452	0.000			0.452	0.452
Q3	0.656	0.000			0.656	0.656
Q10	0.519	0.000			0.519	0.519
Q35	0.651	0.000			0.651	0.651
Q23	0.407	0.000			0.407	0.407
Q9	0.892	0.000			0.892	0.892
Q1	0.857	0.000			0.857	0.857
Q33	0.909	0.000			0.909	0.909
Q14	0.834	0.000			0.834	0.834
Q2	0.898	0.000			0.898	0.898
Q24	0.833	0.000			0.833	0.833
Q6	0.582	0.000			0.582	0.582
Q17	0.533	0.000			0.533	0.533
Q31	0.806	0.000			0.806	0.806
Q28	0.371	0.000			0.371	0.371
Q5	0.747	0.000			0.747	0.747
Q29	0.536	0.000			0.536	0.536
Q34	0.271	0.000			0.271	0.271
Q13	0.904	0.000			0.904	0.904
Q11	0.765	0.000			0.765	0.765
Q32	0.439	0.000			0.439	0.439
Q8	0.334	0.000			0.334	0.334
Q12	0.857	0.000			0.857	0.857
Q27	0.734	0.000			0.734	0.734
Q18	0.288	0.000			0.288	0.288
Q22	0.343	0.000			0.343	0.343
Q26	0.668	0.000			0.668	0.668

Residual covariances

						95% Confidence Interval		
		Estimate	Std. Error	z-value	p	Lower	Upper	
Q33	↔	Q2	0.477	0.037	12.904	< .001	0.404	0.549
Q15	↔	Q10	0.192	0.022	8.628	< .001	0.148	0.235
Q11	↔	Q12	0.334	0.030	11.073	< .001	0.275	0.393
Q3	↔	Q35	0.241	0.027	9.072	< .001	0.189	0.293
Q9	↔	Q1	0.326	0.037	8.854	< .001	0.254	0.398
Q13	↔	Q11	0.295	0.033	8.954	< .001	0.231	0.360
Q13	↔	Q12	0.281	0.035	8.119	< .001	0.213	0.349
Q6	↔	Q17	0.216	0.025	8.789	< .001	0.167	0.264
Q3	↔	Q1	0.241	0.034	7.053	< .001	0.174	0.308
Q17	↔	Q28	0.192	0.023	8.439	< .001	0.147	0.237
Q29	↔	Q11	0.216	0.029	7.326	< .001	0.158	0.273
Q29	↔	Q13	0.226	0.034	6.637	< .001	0.160	0.293
Q9	↔	Q33	0.260	0.041	6.406	< .001	0.180	0.339
Q1	↔	Q2	0.262	0.043	6.146	< .001	0.178	0.345
Q19	↔	Q9	0.218	0.035	6.147	< .001	0.148	0.287
Q29	↔	Q12	0.177	0.032	5.593	< .001	0.115	0.239

Thresholds

Indicator	Threshold	Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
Q19	t1	-1.398	0.062	-22.438	0.000	-1.521	-1.276
	t2	-0.389	0.044	-8.810	0.000	-0.476	-0.303

Thresholds

Indicator	Threshold	Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
Q15	t3	0.716	0.047	15.159	0.000	0.623	0.808
	t1	-1.153	0.055	-20.913	0.000	-1.261	-1.045
	t2	0.068	0.043	1.575	0.115	-0.017	0.152
Q3	t3	1.131	0.055	20.709	0.000	1.024	1.238
	t1	-1.125	0.054	-20.657	0.000	-1.232	-1.018
	t2	0.109	0.043	2.533	0.011	0.025	0.193
Q10	t3	1.360	0.061	22.285	0.000	1.241	1.480
	t1	-0.794	0.048	-16.449	0.000	-0.889	-0.699
	t2	0.210	0.043	4.859	1.182×10 ⁻⁶	0.126	0.295
Q35	t3	1.200	0.056	21.304	0.000	1.090	1.311
	t1	-1.250	0.058	-21.668	0.000	-1.363	-1.137
	t2	-0.210	0.043	-4.859	1.182×10 ⁻⁶	-0.295	-0.126
Q23	t3	1.011	0.052	19.446	0.000	0.909	1.112
	t1	-0.886	0.050	-17.831	0.000	-0.983	-0.789
	t2	0.238	0.043	5.473	4.416×10 ⁻⁸	0.153	0.323
Q9	t3	1.153	0.055	20.913	0.000	1.045	1.261
	t1	-2.008	0.095	-21.065	0.000	-2.195	-1.822
	t2	-1.303	0.059	-21.997	0.000	-1.419	-1.187
Q1	t3	-0.171	0.043	-3.970	7.189×10 ⁻⁵	-0.256	-0.087
	t1	-2.134	0.106	-20.051	0.000	-2.342	-1.925
	t2	-1.331	0.060	-22.147	0.000	-1.449	-1.213
Q33	t3	-0.053	0.043	-1.233	0.218	-0.137	0.031
	t1	-2.399	0.138	-17.398	0.000	-2.669	-2.129
	t2	-1.473	0.065	-22.649	0.000	-1.600	-1.345
Q14	t3	0.112	0.043	2.602	0.009	0.028	0.196
	t1	-1.966	0.092	-21.363	0.000	-2.146	-1.786
	t2	-0.944	0.051	-18.622	0.000	-1.044	-0.845
Q2	t3	0.133	0.043	3.081	0.002	0.048	0.217
	t1	-2.827	0.226	-12.494	0.000	-3.271	-2.384
	t2	-2.229	0.116	-19.166	0.000	-2.457	-2.001
Q24	t3	-0.557	0.045	-12.250	0.000	-0.646	-0.468
	t1	-2.266	0.120	-18.802	0.000	-2.502	-2.029
	t2	-1.687	0.075	-22.632	0.000	-1.833	-1.541
Q6	t3	-0.440	0.045	-9.895	0.000	-0.528	-0.353
	t1	-1.406	0.063	-22.466	0.000	-1.529	-1.284
	t2	-0.447	0.045	-10.030	0.000	-0.534	-0.360
Q17	t3	0.758	0.048	15.872	0.000	0.665	0.852
	t1	-0.963	0.051	-18.861	0.000	-1.063	-0.863
	t2	0.247	0.043	5.678	1.361×10 ⁻⁸	0.162	0.332
Q31	t3	1.499	0.066	22.697	0.000	1.370	1.629
	t1	-2.134	0.106	-20.051	0.000	-2.342	-1.925
	t2	-0.822	0.049	-16.894	0.000	-0.918	-0.727
Q28	t3	0.457	0.045	10.233	0.000	0.369	0.544
	t1	-1.153	0.055	-20.913	0.000	-1.261	-1.045
	t2	0.160	0.043	3.696	2.187×10 ⁻⁴	0.075	0.244
Q5	t3	1.455	0.064	22.610	0.000	1.329	1.582
	t1	-1.809	0.081	-22.235	0.000	-1.969	-1.650
	t2	-0.567	0.046	-12.451	0.000	-0.657	-0.478
Q29	t3	0.585	0.046	12.785	0.000	0.495	0.674
	t1	-1.556	0.068	-22.751	0.000	-1.690	-1.422
	t2	-0.852	0.049	-17.334	0.000	-0.948	-0.755
Q34	t3	0.424	0.044	9.556	0.000	0.337	0.511
	t1	-1.406	0.063	-22.466	0.000	-1.529	-1.284
	t2	-0.645	0.046	-13.913	0.000	-0.736	-0.554
Q13	t3	0.326	0.044	7.451	9.281×10 ⁻¹⁴	0.241	0.412
	t1	-1.908	0.088	-21.727	0.000	-2.081	-1.736
	t2	-0.935	0.051	-18.502	0.000	-1.034	-0.836
Q11	t3	0.292	0.044	6.702	2.063×10 ⁻¹¹	0.207	0.378
	t1	-1.987	0.094	-21.220	0.000	-2.170	-1.803
	t2	-0.720	0.047	-15.225	0.000	-0.812	-0.627

Thresholds

Indicator	Threshold	Estimate	Std. Error	z-value	p	95% Confidence Interval	
						Lower	Upper
Q32	t3	0.262	0.044	6.019	1.750×10^{-9}	0.177	0.347
	t1	-1.987	0.094	-21.220	0.000	-2.170	-1.803
	t2	-1.071	0.053	-20.121	0.000	-1.176	-0.967
Q8	t3	0.271	0.044	6.224	4.842×10^{-10}	0.186	0.356
	t1	-1.398	0.062	-22.438	0.000	-1.521	-1.276
	t2	-0.467	0.045	-10.435	0.000	-0.554	-0.379
Q12	t3	0.500	0.045	11.109	0.000	0.411	0.588
	t1	-1.766	0.079	-22.407	0.000	-1.920	-1.611
	t2	-0.667	0.047	-14.308	0.000	-0.759	-0.576
Q27	t3	0.302	0.044	6.906	4.986×10^{-12}	0.216	0.387
	t1	-3.042	0.301	-10.108	0.000	-3.632	-2.452
	t2	-2.229	0.116	-19.166	0.000	-2.457	-2.001
Q18	t3	-0.620	0.046	-13.449	0.000	-0.710	-0.530
	t1	-1.250	0.058	-21.668	0.000	-1.363	-1.137
	t2	-0.317	0.044	-7.247	4.272×10^{-13}	-0.403	-0.231
Q22	t3	0.860	0.049	17.459	0.000	0.764	0.957
	t1	-1.120	0.054	-20.605	0.000	-1.226	-1.013
	t2	-0.308	0.044	-7.042	1.891×10^{-12}	-0.393	-0.222
Q26	t3	0.913	0.050	18.199	0.000	0.814	1.011
	t1	-2.598	0.171	-15.154	0.000	-2.933	-2.262
	t2	-1.586	0.070	-22.753	0.000	-1.723	-1.450
	t3	0.244	0.043	5.610	2.024×10^{-8}	0.159	0.329