Summary of nonparametric statistics analysis for the latent trait estimates of Pressure/Tension in the pilot study for signed up students

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Table 1: Summary of Scheirer-Ray-Hare results for the latent trait estimates of Pressure/Tension in the pilot study for signed up students

	Df	Sum Sq	H	p.value	Sig
Type					
Type:Type	1	259.286	3.367	0.067	
Type:CLRole	1	12.623	0.164	0.686	
Type:Type:CLRole	1	7.758	0.101	0.751	
Type:Residuals	26	1953.333			

Signif. codes: 0 "**" 0.01 "*" 0.05

Table 2: Descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Pressure/Tension in the pilot study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.greater.1	non-gamified	14	0.28	18.64	261	156	1.84	0.034	0.335	medium
Type.greater.2	ont-gamified	16	−0.20	12.75	204	156	1.84	0.034	0.335	medium

Table 3: Full descriptive statistic of the pair wilcoxon analysis for the latent trait estimates of Pressure/Tension in the pilot study for signed up students

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type.less.1	non-gamified	14	0.28	18.64	261.0	156.0	1.84	0.968	0.335	medium
Type.less.2	ont-gamified	16	−0.20	12.75	204.0	156.0	1.84	0.968	0.335	medium
Type.greater.1	non-gamified	14	0.28	18.64	261.0	156.0	1.84	0.034	0.335	medium
Type.greater.2	ont-gamified	16	−0.20	12.75	204.0	156.0	1.84	0.034	0.335	medium
Type.two.sided.1	non-gamified	14	0.28	18.64	261.0	156.0	1.84	0.068	0.335	medium
Type.two.sided.2	ont-gamified	16	−0.20	12.75	204.0	156.0	1.84	0.068	0.335	medium
Type:CLRole.less.1	non-gamified.Apprentice	12	0.21	7.38	88.5	10.5	−0.27	0.418	0.073	none
Type:CLRole.less.2	non-gamified.Master	2	0.35	8.25	16.5	10.5	−0.27	0.418	0.073	none
Type:CLRole.greater.1	non-gamified.Apprentice	12	0.21	7.38	88.5	10.5	−0.27	0.604	0.073	none
Type:CLRole.greater.2	non-gamified.Master	2	0.35	8.25	16.5	10.5	−0.27	0.604	0.073	none
Type:CLRole.two.sided.1	non-gamified.Apprentice	12	0.21	7.38	88.5	10.5	−0.27	0.824	0.073	none
Type:CLRole.two.sided.2	non-gamified.Master	2	0.35	8.25	16.5	10.5	−0.27	0.824	0.073	none
Type:CLRole.less.11	non-gamified.Apprentice	12	0.21	14.71	176.5	98.5	1.54	0.939	0.313	medium
Type:CLRole.less.21	ont-gamified.Apprentice	12	−0.27	10.29	123.5	98.5	1.54	0.939	0.313	medium
Type:CLRole.greater.11	non-gamified.Apprentice	12	0.21	14.71	176.5	98.5	1.54	0.065	0.313	medium
Type:CLRole.greater.21	ont-gamified.Apprentice	12	−0.27	10.29	123.5	98.5	1.54	0.065	0.313	medium
Type:CLRole.two.sided.11	non-gamified.Apprentice	12	0.21	14.71	176.5	98.5	1.54	0.130	0.313	medium
Type:CLRole.two.sided.21	ont-gamified.Apprentice	12	−0.27	10.29	123.5	98.5	1.54	0.130	0.313	medium
Type:CLRole.less.12	non-gamified.Apprentice	12	0.21	9.08	109.0	31.0	0.85	0.804	0.213	small
Type:CLRole.less.22	ont-gamified.Master	4	−0.13	6.75	27.0	31.0	0.85	0.804	0.213	small
Type:CLRole.greater.12	non-gamified.Apprentice	12	0.21	9.08	109.0	31.0	0.85	0.212	0.213	small
Type:CLRole.greater.22	ont-gamified.Master	4	−0.13	6.75	27.0	31.0	0.85	0.212	0.213	small
Type:CLRole.two.sided.12	non-gamified.Apprentice	12	0.21	9.08	109.0	31.0	0.85	0.425	0.213	small
Type:CLRole.two.sided.22	ont-gamified.Master	4	−0.13	6.75	27.0	31.0	0.85	0.425	0.213	small
Type:CLRole.less.13	non-gamified.Master	2	0.35	11.25	22.5	19.5	1.38	0.912	0.368	medium
Type:CLRole.less.23	ont-gamified.Apprentice	12	−0.27	6.88	82.5	19.5	1.38	0.912	0.368	medium
Type:CLRole.greater.13	non-gamified.Master	2	0.35	11.25	22.5	19.5	1.38	0.110	0.368	medium
Type:CLRole.greater.23	ont-gamified.Apprentice	12	−0.27	6.88	82.5	19.5	1.38	0.110	0.368	medium
Type:CLRole.two.sided.13	non-gamified.Master	2	0.35	11.25	22.5	19.5	1.38	0.220	0.368	medium
Type:CLRole.two.sided.23	ont-gamified.Apprentice	12	−0.27	6.88	82.5	19.5	1.38	0.220	0.368	medium
Type:CLRole.less.14	non-gamified.Master	2	0.35	5.00	10.0	7.0	1.39	0.933	0.567	large
Type:CLRole.less.24	ont-gamified.Master	4	−0.13	2.75	11.0	7.0	1.39	0.933	0.567	large
Type:CLRole.greater.14	non-gamified.Master	2	0.35	5.00	10.0	7.0	1.39	0.133	0.567	large
Type:CLRole.greater.24	ont-gamified.Master	4	−0.13	2.75	11.0	7.0	1.39	0.133	0.567	large
Type:CLRole.two.sided.14	non-gamified.Master	2	0.35	5.00	10.0	7.0	1.39	0.267	0.567	large
Type:CLRole.two.sided.24	ont-gamified.Master	4	−0.13	2.75	11.0	7.0	1.39	0.267	0.567	large
Type:CLRole.less.15	ont-gamified.Apprentice	12	−0.27	8.42	101.0	23.0	−0.12	0.473	0.030	none
Type:CLRole.less.25	ont-gamified.Master	4	−0.13	8.75	35.0	23.0	−0.12	0.473	0.030	none
Type:CLRole.greater.15	ont-gamified.Apprentice	12	−0.27	8.42	101.0	23.0	−0.12	0.565	0.030	none
Type:CLRole.greater.25	ont-gamified.Master	4	−0.13	8.75	35.0	23.0	−0.12	0.565	0.030	none

Table 3: *(continued)*

	Group	N	Median	Mean.Ranks	Sum.Ranks	U	Z	p.value	r	magnitude
Type:CLRole.two.sided.15	ont-gamified.Apprentice	12	−0.27	8.42	101.0	23.0	−0.12	0.933	0.030	none
Type:CLRole.two.sided.25	ont-gamified.Master	4	−0.13	8.75	35.0	23.0	−0.12	0.933	0.030	none