Gender and Ethnic Differences on CPI™ 434 Scales

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This study examines gender and ethnic differences on three classes of CPI scales (folk, special purpose, and vector) using a sample of 570 employed adults. Statistically significant differences were found between the gender and ethnic groups on some of the scales. However, effect sizes show that, with the exception of the Femininity/Masculinity (F/M) scale, these differences are not meaningful; indicating that the CPI instrument functions fairly across gender and three ethnic groups studied, and can be used in combination with other measures as a selection tool.

Personality is typically measured using a self-report questionnaire on which respondents indicate their feelings or behaviors, yielding measurements of traits such as neuroticism, anxiety, extraversion, dominance, assertiveness, sensitivity, conscientiousness, and agreeableness. Feingold (1994) notes that group differences in personality traits were first studied to determine whether different norms were necessary for men and women, and ethnic differences have been studied by many researchers (Nuby & Oxford, 1998; Kaufman, Kaufman, & McLean, 1993).

Gender differences

Gender differences are commonly found on personality measures. For example, women have tended to score higher than men on measures such as agreeableness. extroversion (Jung, 1995), and dependability (Hough, 1998). Men typically score higher on masculinity scales (Eysenck, Eysenck, & Barrett, 1995), dominance, and influence (Hough, 1998). A meta-analysis of gender differences found that men were more assertive, while women scored higher on measures of extroversion, anxiety, trust, and tender mindedness (Feingold, 1994). On the MBTI® assessment, results show that men prefer Thinking and women prefer Feeling (Hammer & Mitchell, 1996), and

slightly more men prefer Introversion, and women Extraversion (Myers, McCaulley, Quenk, & Hammer, 1998).

Ethnic group differences Studies on personality differences among ethnic groups show mixed results. Some have found little difference and very similar results across race. For example, a study by Heuchert, Parker, Stumph, and Myburgh (2000) showed that the commonly used five-factor model of personality was very similar across Blacks, Whites, Indians, and mixed race participants in South Africa. Another study found the five factor model to fit equally well for both Black and White job applicants (Collins & Gleaves, 1998). Research done with the MBTI assessment found that Blacks, Whites, and Hispanics tended to score similarly (Kaufman, Kaufman, & McLean, 1993).

Other studies, however, have shown personality differences among racial and ethnic groups. The Heuchert et. al (2000) study found that although the five-factor model fit well across different ethnicities, there were significant differences in some mean scores. For example, Whites scored higher than Blacks on openness to experience. Other researchers have shown that Whites tended to score higher than Asians and Latinos on both agreeableness and extroversion, while Asians tended to score higher on neuroticism (Jung, 1995). Specific to the CPI 434 instrument, Davis, Hoffman, and Nelson (1990) found Native Americans, especially females, to score significantly lower than Caucasians on a number of CPI 434 scales.

The present study examines gender and ethnic differences on the CPI 434 instrument. The CPI 434 instrument is a personality assessment that is often used as part of a larger battery to successfully recruit, select, and develop employees, managers, and executives. The twenty folk scales, three vector scales, and seven special purpose scales provide information about an individual's personality as if they were being described by someone who knows them well. Such results have been used to accurately predict things like leadership (Blake, Potter, & Slimak, 1993), ratings of employee characteristics (Hoffman & Davis, 1995), career indecision (Newman, Gray, & Fugua, 1999), and academic achievement (Tang, Deng, & Hu, 2001). In general, personality is known to predict behaviors specific to job performance (Blake, Potter, & Slimak, 1993; Kieffer, Schinka, & Curtiss, 2004; Witt, Burke, Barrick, & Mount, 2002). When used in an employment setting it is important to know whether there may be gender or ethnic differences on the instruments involved because disparities may violate Federal Equal Employment Opportunity Laws (U.S. Equal Employment Opportunity Commission, 2004).

Because the CPI 434 instrument is often used as a part of employment selection programs, differences based on gender or race become vitally important, so as to not create adverse impact. Given the gender differences on personality traits and mixed findings with respect to ethnicity, it is important to determine whether such differences exist with commonly used personality instruments.

Method

Participants

A sample of employed adults (N = 570) age 20 to 65 who completed the CPI 434 instrument for training purposes was selected from a CPP, Inc. archival database from years 2002-2005. To examine the effects of gender and ethnicity on CPI scale scores while minimizing influence from extraneous variables, the sample was created using participants with similar demographic profiles. The sample contains an equal number of males and females, and an equal number of African Americans, Caucasians, and Latinos/Hispanics (n = 190each). Due to insufficient numbers, it was not possible to explore differences for Native Americans, Asians or other ethnic groups. Although there are some significant differences in demographic profiles, none were large enough to make the groups not comparable.

Nearly all of the participants said they were satisfied with their current job, and the hierarchical job level distributions (e.g., nonsupervisory employee, supervisor, management) were similar between men and women with approximately 42% of each working in management. The highest level of education completed was similar among the ethnic groups with 65% of African Americans, 60% of Caucasians, and 62% of Latinos/Hispanics having a Bachelor's or Master's degree; and by gender with 60% of women and 65% of men obtaining a Bachelor's or Master's degree. Average age of this sample was 37.77 (SD = 9.53), and average ages were similar across gender and ethnicities.

Measures. Twenty folk scales, 4 vector scales and 7 special purpose scales of the CPI 434 instrument are examined; these are common classifications of scales on this instrument. The folk scales are the original scales developed for the CPI instrument, and measure concepts related to the processes of interpersonal life (Gough & Bradley, 1996). The folk scales can be factor analytically reduced to four or five factors. The vector scales were developed to represent three of the factors of the CPI instrument (Gough & Bradley, 1996). The vector scales are used in defining the cuboid model of personality structure, which provides a higher order description of an individual's approach to and satisfaction with life. The third category of scales includes the special purpose scales, which have been developed by the CPI instrument's author and other researchers following the development of the 20 folk scales.

Table 1.	CPI 434	Standard	Scale 3	Score	Means	and	Standard	Deviation	s by	Gender
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	W	omen		Men
CPI Scale	Mean	SD	Mean	SD
Dominance (Do)	64.78	9.07	67.31	6.63
Capacity for Status (Cs)	58.21	7.72	59.73	6.09
Sociability (Sy)	59.13	7.48	60.28	7.51
Social Presence (Sp)	53.92	8.44	56.28	7.91
Self-acceptance (Sa)	58.40	7.35	59.87	6.68
Independence (In)	59.36	6.95	61.45	5.07
Empathy (Em)	58.85	8.16	61.55	8.46
Responsibility (Re)	56.73	6.91	55.84	7.11
Socialization (So)	55.37	6.95	54.32	6.38
Self-control (Sc)	59.24	8.81	58.86	8.10
Good Impression (Gi)	63.45	10.17	64.40	9.94
Communality (Cm)	53.66	6.20	53.91	5.71
Well-being (Wb)	57.59	6.77	59.33	5.14
Tolerance (To)	58.67	7.70	58.12	6.96
Achievement via Conformance (Ac)	60.25	6.92	60.73	6.15
Achievement via Independence (Ai)	59.43	6.47	61.32	5.99
Intellectual Efficiency (le)	56.72	6.78	58.46	6.04
Psychological Mindedness (Py)	58.12	7.41	60.12	6.12
Flexibility (Fx)	50.71	9.74	52.08	9.00
Femininity/Masculinity (F/M)	51.05	6.00	41.65	6.79
Externality/Internality (v.1)	41.88	8.62	39.06	7.61
Norm-doubting/Norm-favoring (v.2)	55.88	8.47	56.22	7.96
Ego-integration (v.3)	61.99	7.68	63.11	6.96
Management Potential (Mp)	62.85	7.77	64.12	6.55
Work Orientation (Wo)	57.95	7.49	59.68	6.73
Creative Temperament (CT)	53.58	8.65	55.17	8.35
Leadership (Lp)	62.90	6.71	64.60	5.09
Amicability (Ami)	57.77	8.29	58.23	7.72
Law Enforcement Orientation (Leo)	62.34	9.63	65.20	8.35
Tough-mindedness (Tm)	63.68	7.31	65.44	5.70

Note: N = 570 (n = 285 each men and women).

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Analyses. The three classes of CPI scales were analyzed separately in this study for several reasons. First, the folk scales can be reduced to four or five main factors (Gough & Bradley, 1996), which contain the content for the vector scales. Many of the scales have overlapping item content. For example, all but one of the items on the vector 1 scale are also on at least one of the folk or special purpose scales. Also, the scales were developed and are organized separately on the CPI Profile.

Following the multivariate approach used elsewhere (Timbrook & Graham, 1994; Davis, Hoffman & Nelson, 1990), three multivariate analyses of variance (MANOVAs), were computed, comparing gender and ethnicity for each of the three classifications of scales – folk, vector, and special purpose. Significant multivariate differences were followed up with univariate analyses of variance (ANOVAs), allowing the examination of each CPI scale for gender and ethnic group differences. Means and standard deviations for the CPI scales by gender and ethnicity are presented in Tables 1 and 2.

Results

Folk Scales. For the folk scales, the main effects for gender (Wilks' Λ = .604 at F(20, 545) = 17.865, p < .05, η^2 = .396), and ethnicity (Wilks' Λ = .791 at F(40, 1090) = 3.395, p < .05, η^2 = .111) were significant. The interaction of gender and ethnicity was not significant (Wilks' Λ = .937 at F(40, 1090) = .895, p > .05, η^2 = .032).

The follow-up univariate analyses of variance (ANOVAs) showed statistically significant differences between men and women on the following scales: Dominance, Capacity for Status, Social Presence, Self-acceptance, Independence, Empathy, Well-being, Achievement via

Independence, Intellectual Efficiency, Psychological Mindedness, and Femininity/Masculinity. Men scored higher on all of these scales with the exception of F/M. Statistically significant differences were also found between the three ethnic groups on the Social Presence, Self-control, Good Impression, Communality, Tolerance, Achievement via Conformance, Achievement via Independence, Intellectual Efficiency, and Femininity/Masculinity scales. However, "statistical testing cannot evaluate result importance" (Vacha-Haase & Thompson, 2004, p.473). For this we must look to effect sizes to judge the practical significance of results (Kirk, 1996). All of these differences are small, partial $\eta^2 = .02$, according to Cohen (1992). The one scale that had a difference with a large effect size (partial $\eta^2 \ge .35$) was between men and women on the Femininity/Masculinity scale. Differences between men and women on this scale are expected. See Table 3 for ANOVA summaries for all analyses.

Post hoc analyses based on ethnicity were used to determine precisely how the ethnic groups differ. Tukey's HSD and LSD tests both showed that Caucasians scored higher than African Americans and Latinos/Hispanics on Social Presence, Communality, and Tolerance; African Americans and Latinos/Hispanics scored higher than Caucasians on Good Impression; Caucasians scored higher than Latinos/Hispanics on Achievement via Independence; Caucasians scored higher than African Americans on Intellectual Efficiency; and African Americans scored higher than Caucasians on Self-control, Achievement via Conformance, and Femininity/Masculinity. LSD alone showed that Latinos/Hispanics scored higher than Caucasians on Self-control, Achievement via Conformance, and Femininity/Masculinity; while Caucasians scored higher than Latinos/Hispanics on Intellectual Efficiency (see Table 5).

Special Purpose Scales. There were significant main effects for gender (Wilks' Λ = .930 at F(7, 558) = 6.044, p <.05, η^2 = .070), and ethnicity (Wilks' Λ = .921 at F(14, 1116) = 3.365, p <.05, η^2 = .041) for the set

of special purpose scales. However, the interaction was not significant (Wilks' Λ = .979 at F(14, 1116) = .840, p >.05, η^2 = .010).

Table 2. CPI 434 Standard Scale	Score Means and Standard	Deviations by Ethnicity
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	African American		Cau	casian	Latino/Hispanic	
CPI Scale	Mean	SD	Mean	SD	Mean	SD
Dominance (Do)	66.92	7.70	65.67	8.53	65.55	7.82
Capacity for Status (Cs)	58.82	7.04	59.35	6.50	58.75	7.41
Sociability (Sy)	59.43	7.86	60.16	7.53	59.53	7.13
Social Presence (Sp)	54.04	7.92	56.64	8.14	54.62	8.51
Self-acceptance (Sa)	58.76	6.58	59.92	7.13	58.73	7.39
Independence (In)	60.46	6.16	60.51	6.28	60.24	6.08
Empathy (Em)	60.38	9.05	60.97	8.43	59.24	7.65
Responsibility (Re)	56.68	6.80	55.59	7.47	56.58	6.75
Socialization (So)	54.55	6.39	55.29	6.90	54.70	6.77
Self-control (Sc)	60.24	7.90	57.54	8.39	59.37	8.87
Good Impression (Gi)	65.05	9.68	61.40	9.67	65.32	10.37
Communality (Cm)	53.27	6.23	55.08	4.78	53.01	6.53
Well-being (Wb)	58.10	6.26	59.04	5.32	58.24	6.55
Tolerance (To)	57.73	7.70	59.64	6.45	57.80	7.67
Achievement via Conformance (Ac)	61.56	6.31	59.18	6.81	60.73	6.31
Achievement via Independence (Ai)	60.45	6.16	61.31	6.24	59.37	6.39
Intellectual Efficiency (le)	56.85	6.35	58.69	6.35	57.21	6.59
Psychological Mindedness (Py)	58.94	6.74	59.46	6.92	58.98	6.96
Flexibility (Fx)	52.20	9.29	51.88	9.58	50.10	9.23
Femininity/Masculinity (F/M)	47.29	7.28	45.18	8.73	46.57	7.66
Externality/Internality (v.1)	40.57	7.76	40.12	8.89	40.72	8.07
Norm-doubting/Norm-favoring (v.2)	56.27	8.23	55.52	8.85	56.34	7.55
Ego-integration (v.3)	62.15	7.11	62.96	6.62	62.55	8.23
Management Potential (Mp)	63.58	7.56	64.25	6.49	62.61	7.46
Work Orientation (Wo)	58.32	7.13	59.27	6.37	58.86	7.92
Creative Temperament (CT)	55.07	8.23	54.95	9.08	53.11	8.15
Leadership (Lp)	64.07	5.93	63.79	6.25	63.39	5.86
Amicability (Ami)	57.46	8.27	58.73	7.11	57.82	8.56
Law Enforcement Orientation (Leo)	64.29	9.07	62.94	9.33	64.09	8.94
Tough-mindedness (Tm)	65.60	6.50	63.71	6.29	64.37	6.91

Note: N = 570 (n = 190 each African Americans, Caucasians, and Latinos/Hispanics).

ANOVAs were used to determine specifically which special purpose scales have differences between gender and ethnic groups. There are statistically significant differences between men and women on the Management Potential, Work Orientation, Creative Temperament, Leadership, Law Enforcement Orientation, and Tough-Mindedness scales (see Table 3). Specifically, men averaged higher scores than women on all of these scales (see Table 1), with the largest difference on Law Enforcement Orientation (men M = 65.20, SD = 8.35; women M = 62.34, SD = 9.63). Significant differences between the three ethnic groups in question exist for the Creative Temperament and Tough-Mindedness scales. LSD and Tukey HSD Post hoc analyses were used to examine how the ethnic groups differ. Tukey's HSD showed no differences at the p < .05 level on the Creative Temperament scale, LSD post hoc analyses on this scale found significant differences, such that both African Americans (M = 55.07, SD = 8.23) and Caucasians (M = 54.95, SD = 9.08) averaged higher scores than Latinos/Hispanics (M = 53.11, SD = 8.15). Both LSD and Tukey's HSB showed that African Americans (M = 65.60, SD = 6.50) averaged higher scores than Caucasians (M = 63.71, SD = 6.29) on the Tough-Mindedness scale (see Table 4). All of these differences on the special purpose scales are small based on Cohen's criterion for effect sizes.

Vector Scales. Only gender had a significant main effect for the three vector scales (Wilks' Λ = .966 at F(3, 562) = 6.584, p <.05, η^2 = .034). The main effect for ethnicity was not significant (Wilks' Λ = .994 at F(6, 1124) = .568, p >.05, η^2 = .003); nor was the interaction (Wilks' Λ = .985 at F(6, 1124) = 1.404, p >.05, η^2 = .007). ANOVAs showed a significant difference between men and women on Externality/Internality (see Table 3), with women (M = 41.88, SD = 8.62) scoring higher than men (M = 39.06, SD = 7.61), although the effect size shows that this difference is small.

Discussion

While no single personality inventory should be used as the sole basis for selection or other employment decisions, this study shows that scales from the CPI 434 instrument can be used, without concern for adverse impact in terms of gender or

ethnicity, as a component of a selection process. Some significant differences were found by gender or ethnicity. However, the effect sizes for all but one of this study's significant differences are small, and therefore not practically meaningful, according to Cohen (1992). The Femininity/Masculinity scale was the exception, with a large effect size (partial η^2 \geq .35) for the difference between genders. This scale was constructed to characterize respondents as having culturally universal characteristics of 'feminine' or 'masculine'. To the extent that men and women adopt the cultural gender roles into their personalities, regardless of the method of adaptation, differences on this scale would be expected. Failure to show gender differences across cultures would call the validity of this scale into question (Gough & Bradley, 1996).

Due to insufficient numbers of additional ethnic groups, the current study was limited to examining differences between only three ethnicities. Future studies focused on ethnic differences on the CPI 434 instrument should include more ethnic groups, such as Asians and Native Americans, especially given past findings of differences between Caucasians and Native Americans (Davis, Hoffman, & Nelson, 1990). However, it is noteworthy that the three largest ethnic groups in the United States were included.

This study is also limited by the fact that there is some variance in extraneous demographic variables that may affect the gender and ethnic differences. Ideally, future research should seek to limit this by more closely approximating demographic distributions across groups or including covariates in the analyses. That said, this study shows that the CPI instrument is a valid tool for many different groups, and is a valuable contribution to the literature on gender and ethnic differences.

Table 3. ANOVA Su	ımmarv Table
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CPI Scale		df	Mean Square	F	Sig.	Partial η^2
Folk Scales						•
Dominance (Do)	Main effect ethnicity	2	108.764	1.731	.178	.006
	Main effect gender	1	911.625	14.511	.000	.025
	Interaction	2	89.438	1.424	.242	.005
	Error	564	62.823			
Capacity for Status (Cs)	Main effect ethnicity	2	20.565	.426	.654	.002
	Main effect gender	1	331.912	6.867	.009	.012
	Interaction	2	73.512	1.521	.219	.005
	Error	564	48.331			
Sociability (Sy)	Main effect ethnicity	2	29.669	.527	.591	.002
	Main effect gender	1	185.909	3.301	.070	.006
	Interaction	2	33.990	.604	.547	.002
	Error	564	56.314			
Social Presence (Sp)	Main effect ethnicity	2	354.648	5.377	.005	.019
	Main effect gender	1	798.841	12.111	.001	.021
	Interaction	2	24.780	.376	.687	.001
	Error	564	65.962			
Self-acceptance (Sa)	Main effect ethnicity	2	88.027	1.789	.168	.006
	Main effect gender	1	308.264	6.264	.013	.011
	Interaction	2	30.867	.627	.534	.002
	Frror	- 564	49 210	.027	.001	.002
Independence (In)	Main effect ethnicity	2	3 896	105	900	000
	Main effect gender	1	622 040	16 764	000	029
		2	33 428	901	407	003
	Frror	- 564	37 105			
Empathy (Em)	Main effect ethnicity	2	146 162	2 1 2 2	121	007
	Main effect gender	1	1037 754	15 065	000	026
	Interaction	2	32 772	476	622	002
	Frror	_ 564	68.887			
Responsibility (Re)	Main effect ethnicity	2	69 411	1 412	245	005
	Main effect gender	1	110 592	2 249	134	004
	Interaction	2	19 580	398	672	001
	Frror	- 564	49 174	.000	.072	
Socialization (So)	Main effect ethnicity	2	29 404	657	519	002
	Main effect gender	1	156 831	3 505	062	006
	Interaction	2	3 041	000.00	.002	000
	Frror	- 564	44 739	.000	.001	.000
Self-control (Sc)	Main effect ethnicity	2	359 492	5 093	006	018
	Main effect gender	1	20.015	284	595	001
	Interaction	2	63 796	904	406	003
	Frror	2 564	70 590	.004	.+00	.000
Good Impression (Gi)	Main effect ethnicity	2	908 585	9 222	000	032
	Main effect gender	1	126 193	1 281	258	.002
	Interaction	2	11 072	1.201	.200	.002
	Frror	2 564	98 52/	.112	.004	.000
Communality (Cm)	Main effect othnicity	2	00.024 0/10 011	6015	001	024
	Main effect cender	∠ 1	242.211 Q 75Q	0.040	627	.024 000
	Interaction	2	0.200	.23V	.027 715	.000
	Frror	∠ 564	21 Q71	.550	.710	.001
		504	54.074			

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Well-being (Wb) Main effect ethnicity Interaction 2 48.493 1.393 263 .005 Error 564 36.222 .718 .020 .980 .000 Tolerance (To) Main effect ethnicity Main effect gender 1 42.930 .807 .369 .001 Achievement via Conformance Main effect gender 1 42.930 .807 .002 .023 Achievement via Conformance Main effect gender 1 42.930 .807 .001 Achievement via Independence Main effect gender 1 33.161 .787 .375 .001 Achievement via Independence Main effect ethnicity 2 179.950 4.700 .009 .016 (A) Main effect ethnicity 2 181.369 4.439 .012 .015 Interaction 2 .687 .017 .983 .000 .023 (A) Main effect gender 1 431.109 10.53 .001 .021 Interaction 2	CPI Scale		df	Mean Square	F	Sig.	Partial η^2
Main effect gender 1 432.967 11.952 0.01 0.21 Interaction 2 7.78 360 .000 Error 564 36.222 .016 .015 Main effect gender 1 42.303 .807 .369 .001 Achievement via Conformance Main effect gender 1 33.161 .757 .002 .023 Achievement via Conformance Main effect gender 1 33.161 .757 .000 .016 Achievement via Independence Main effect gender 1 564 42.130 .001 .015 Achievement via Independence Main effect gender 1 508.015 13.267 .000 .023 Interaction 2 181.369 4.439 .012 .015 Main effect gender 1 508.015 13.267 .000 .016 (Ai) Main effect gender 1 584 .017 .983 .000 Error 564 4.084 .017	Well-being (Wb)	Main effect ethnicity	2	48.493	1.339	.263	.005
Interaction 2 .718 .020 980 .000 Error 564 36.222		Main effect gender	1	432.967	11.953	.001	.021
Error 564 36.222 Tolerance (To) Main effect gender 1 42.930 .807 .369 .001 Interaction 2 70.700 1.329 .266 .005 Achievement via Conformance Main effect ethnicity 2 277.021 6.575 .002 .023 Achievement via Independence Main effect ethnicity 2 9.038 .215 .807 .001 Achievement via Independence Main effect ethnicity 2 9.038 .215 .007 .003 Achievement via Independence Main effect gender 1 564 42.130 .007 .012 .013 .012 .013 .000 .016 .013 .012 .013 .001 .018 .000 .016 .015 .001 .012 .015 .001 .012 .015 .001 .012 .015 .001 .012 .015 .001 .012 .016 .012 .015 .001 .012 .016 .012 .012 </td <td></td> <td>Interaction</td> <td>2</td> <td>.718</td> <td>.020</td> <td>.980</td> <td>.000</td>		Interaction	2	.718	.020	.980	.000
Tolerance (To) Main effect ethnicity 2 221,277 4,195 .016 .015 Main effect gender 1 42,930 807 .369 .001 Achievement via Conformance Error 564 53,208		Error	564	36.222			
Main effect gender 1 42.930 8.07 .369 .001 Achievement via Conformance Main effect ethnicity 2 277.021 6.575 .002 .003 Achievement via Conformance Main effect ethnicity 2 9.038 .215 .807 .001 Achievement via Independence Main effect ethnicity 2 9.038 .215 .807 .003 Achievement via Independence Main effect ethnicity 2 72.069 .4700 .023 Interaction 2 72.069 .4700 .023 .001 Error 564 38.290 .012 .015 Interaction 2 72.069 .470 .023 .000 Error 564 40.854 .017 .983 .000 Error 564 40.854 .017 .983 .000 Error 564 40.854 .017 .983 .000 Error 564 46.391 .001 .021 .011	Tolerance (To)	Main effect ethnicity	2	221.277	4.159	.016	.015
Interaction 2 70.700 1.329 .266 .005 Achievement via Conformance Main effect ethnicity 2 277.021 6.575 .002 .023 (Ac) Main effect gender 1 33.161 .787 .375 .001 Error 564 42.130 .009 .016 (Ai) Main effect gender 1 508.015 13.267 .000 .023 (Ai) Main effect gender 1 508.015 13.267 .000 .023 Interaction 2 72.069 1.882 .153 .007 Error 564 38.290 .153 .001 .018 Interaction 2 .687 .017 .983 .000 Error 564 40.854 .001 .021 Psychological Mindedness (Py) Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .000 .002 <td></td> <td>Main effect gender</td> <td>1</td> <td>42.930</td> <td>.807</td> <td>.369</td> <td>.001</td>		Main effect gender	1	42.930	.807	.369	.001
Achievement via Conformance Error 564 53.208 Achievement via Conformance Main effect gender 1 33.161 .787 .375 .001 Achievement via Independence Main effect gender 1 564 42.130 .001 Achievement via Independence Main effect ethnicity 2 179.950 4.700 .009 .016 (Ai) Interaction 2 72.069 1.822 .153 .007 Intellectual Efficiency (le) Main effect gender 1 431.109 10.553 .001 .018 Interaction 2 .687 .017 .983 .000 Error 564 40.854 .001 .021 .018 Interaction 2 .2520 .636 .530 .000 Error 564 46.391 .012 .015 Main effect gender 1 26.9520 .663 .000 Error 564 40.351 .023 .000 .021		Interaction	2	70.700	1.329	.266	.005
Achievement via Conformance (Ac) Main effect ethnicity Interaction 2 277.021 6.575 .002 .023 Main effect gender (A) 1 33.161 .787 .375 .001 Achievement via Independence (A) Main effect ethnicity 2 179.950 4.700 .009 .016 (A) Main effect gender Interaction 1 508.015 13.267 .000 .023 Interaction 2 72.069 4.700 .003 .011 Interaction 2 72.069 1.882 .153 .007 Error 564 38.290 .011 .018 .012 .015 Main effect gender 1 431.109 10.553 .001 .018 Interaction 2 .687 .017 .983 .000 Error 564 40.854 .011 .021 .011 Interaction 2 29.520 .636 .530 .000 Error 564 46.391 .215		Error	564	53.208			
(Ac) Main effect gender 1 33.161 .787 .375 .001 Achievement via Independence Main effect ethnicity 2 9.038 .215 .807 .001 Achievement via Independence Main effect ethnicity 2 179.950 4.700 .009 .016 (Ai) Main effect ethnicity 2 173.967 .000 .023 Interaction 2 72.069 1.882 .153 .007 Error 564 38.290 .015 .017 .983 .000 Interaction 2 18.1869 4.439 .012 .015 Main effect ethnicity 2 18.895 .343 .710 .001 Psychological Mindedness (Py) Main effect ethnicity 2 18.895 .343 .710 .001 Main effect gender 1 268.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .001 Error 564 4	Achievement via Conformance	Main effect ethnicity	2	277.021	6.575	.002	.023
Achievement via Independence Interaction 2 9.038 215 .807 .001 Achievement via Independence Main effect ethnicity 2 179.950 4.700 .009 .016 (Ai) Main effect gender 1 508.015 13.267 .000 .023 Interaction 2 72.069 1.882 .153 .007 Error 564 38.290 .012 .015 Main effect gender 1 431.109 10.553 .001 .018 Interaction 2 .637 .017 .983 .000 Psychological Mindedness (Py) Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 2.9.520 .636 .530 .002 Error 564 40.284 .001 .021 Interaction 2 2.9.520 .636 .010 Main effect gender 1 269.892 .090 .005 Interaction	(Ac)	Main effect gender	1	33.161	.787	.375	.001
Error 564 42.130 Achievement via Independence Main effect gender 1 508.015 13.267 .000 .023 (Ai) Interaction 2 72.069 1.882 .153 .007 Error 564 38.290 .013 .013 .013 .013 Intellectual Efficiency (le) Main effect ethnicity 2 18.1369 4.439 .012 .015 Main effect gender 1 431.109 10.553 .001 .018 Error 564 40.854		Interaction	2	9.038	.215	.807	.001
Achievement via Independence (Ai) Main effect ethnicity Interaction 2 179.950 (508.015) 4.700 (508.015) 0.09 (508.015) 0.016 (508.015) Interaction 2 72.069 1.882 .153 .007 Intellectual Efficiency (le) Main effect gender Main effect gender 1 431.09 10.553 .001 .018 Psychological Mindedness (Py) Main effect ethnicity Main effect gender 2 .687 .017 .983 .000 Error 564 40.854 .017 .983 .001 Psychological Mindedness (Py) Main effect ethnicity Interaction 2 29.520 .636 .530 .002 Error 564 46.331 .003 .005 .016 .021 .004 .005 .016 Heixibility (Fx) Main effect ethnicity Error 2 243.247 2.785 .063 .010 Main effect gender 1 2568.751 312.129 .000 .356 Femininity/Masculinity (F/M) Main effect ethnicity 2 218.254 5.4		Error	564	42.130			
(Ai) Main effect gender Interaction 1 508 015 13.267 .000 .023 .007 Intellectual Efficiency (Ie) Main effect dender Interaction 2 72.069 1.882 .153 .007 Intellectual Efficiency (Ie) Main effect dender Interaction 2 181.369 4.439 .012 .015 Main effect dender 1 431.109 10.553 .001 .018 Interaction 2 .687 .017 .983 .000 Error 564 40.854 .011 .021 Main effect gender 1 558.104 12.246 .001 .021 Interaction 2 29.520 .636 .010 .021 Interaction 2 243.247 2.785 .063 .010 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 .97.224 2.414 .090 .356 Interaction 2 29.703 .578 .562	Achievement via Independence	Main effect ethnicity	2	179.950	4.700	.009	.016
Interaction 2 72.069 1.882 .153 .007 Error 564 38.290	(Ai)	Main effect gender	1	508.015	13.267	.000	.023
Intellectual Efficiency (le) Fror 564 38.290 Intellectual Efficiency (le) Main effect ethnicity 2 181.369 4.439 0.02 0.015 Main effect gender 1 431.109 10.553 .001 .018 Interaction 2 .687 .017 .983 .000 Error 564 40.854 .001 .021 Psychological Mindedness (Py) Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .002 Error 564 46.391		Interaction	2	72.069	1.882	.153	.007
Intellectual Efficiency (le) Main effect ethnicity 2 181.369 4.439 .012 .015 Main effect gender 1 431.109 10.553 .001 .018 Psychological Mindedness (Py) Main effect ethnicity 2 15.895 .343 .710 .001 Main effect gender 1 564.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .002 Error 564 46.391 .017 .003 .004 Flexibility (Fx) Main effect ethnicity 2 243.247 2.785 .063 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .019 .018 .019 .018 Main effect gender 1 1256.751 312.129 .000 .356 .019 Main effect gender 1 2		Error	564	38.290			
Main effect gender 1 431.109 10.553 .001 .018 Psychological Mindedness (Py) Main effect ethnicity 2 .687 .017 .983 .000 Error 564 40.854	Intellectual Efficiency (Ie)	Main effect ethnicity	2	181.369	4.439	.012	.015
Interaction 2 .687 .017 .983 .000 Error 564 40.854		Main effect gender	1	431.109	10.553	.001	.018
Psychological Mindedness (Py) Error 564 40.854 Psychological Mindedness (Py) Main effect ethnicity 2 15.895 .343 .710 .001 Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .002 Error 564 46.391 .001 Main effect gender 1 20.920 .036 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .001 .356 Femininity/Masculinity (F/M) Main effect gender 1 125.875 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .356 Interaction 2 29.703 .578 .562 .002 Error 564 40.268 .003 .004 .015		Interaction	2	.687	.017	.983	.000
Psychological Mindedness (Py) Main effect ethnicity 2 15.895 .343 .710 .001 Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .002 Error 564 46.391 .001 .021 Flexibility (Fx) Main effect ethnicity 2 243.247 2.785 .063 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .019 .035 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268 .001 .002 Wain effect gender 1 229.376 4.460 .035 .008 Interaction 2		Error	564	40.854			
Main effect gender 1 568.104 12.246 .001 .021 Interaction 2 29.520 .636 .530 .002 Error 564 46.391 .001 .021 Main effect ethnicity 2 243.247 2.785 .063 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .005 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268 .021 .002 .002 Main effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Error 564 51.429 .001 .015 .016 .015<	Psychological Mindedness (Py)	Main effect ethnicity	2	15.895	.343	.710	.001
Interaction 2 29,520 .636 .530 .002 Fror 564 46,391	, , ,	Main effect gender	1	568.104	12.246	.001	.021
Flexibility (Fx) Error 564 46.391 Main effect ethnicity 2 243.247 2.785 .063 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .005 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268 .031 .009 .008 Special Purpose Scales .041 .29.9703 .578 .562 .002 Man effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Error 564 51.429 .015 .016 .015 Main effect gender 1 424.040 8.343 .004 .015		Interaction	2	29.520	.636	.530	.002
Flexibility (Fx) Main effect ethnicity 2 243.247 2.785 .063 .010 Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350 .005 .010 Main effect ethnicity 2 218.254 5.420 .005 .010 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268		Error	564	46.391			
Main effect gender 1 269.892 3.090 .079 .005 Interaction 2 106.160 1.215 .297 .004 Error 564 87.350	Flexibility (Fx)	Main effect ethnicity	2	243.247	2.785	.063	.010
Femininity/Masculinity (F/M) Interaction 2 106.160 1.215 .297 .004 Fror 564 87.350 .019 Main effect ethnicity 2 218.254 5.420 .005 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268	,	Main effect gender	1	269.892	3.090	.079	.005
Femininity/Masculinity (F/M) Error 564 87.350 Main effect ethnicity 2 218.254 5.420 .005 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Special Purpose Scales - - - - - - - .009 .009 .008 Management Potential (Mp) Main effect ethnicity 2 129.999 2.528 .081 .009 Main effect gender 1 229.376 4.460 .035 .002 Error 564 51.429 - - .002 Work Orientation (Wo) Main effect ethnicity 2 42.314 .832 .435 .003 Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829 -		Interaction	2	106.160	1.215	.297	.004
Fermininity/Masculinity (F/M) Main effect ethnicity 2 218.254 5.420 .005 .019 Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Error 564 40.268		Error	564	87.350			
Main effect gender 1 12568.751 312.129 .000 .356 Interaction 2 97.224 2.414 .090 .008 Special Purpose Scales	Femininity/Masculinity (F/M)	Main effect ethnicity	2	218.254	5.420	.005	.019
Interaction 2 97.224 2.414 .090 .008 Error 564 40.268 40.460 0.35 0.008 40.460 40.460 40.460 40.35 0.008 40.460 40.460 40.460 40.42 40.268 40.268 40.268 40.268 40.268 40.268 40.268 40.268 40.460 40.35 0.008 40.460 40.35 0.008 40.268 40.268 40.268 40.268 40.268 40.268 40.268 40.268 40.268 40.25 40.35 40.303 <td></td> <td>Main effect gender</td> <td>1</td> <td>12568.751</td> <td>312.129</td> <td>.000</td> <td>.356</td>		Main effect gender	1	12568.751	312.129	.000	.356
Special Purpose Scales Error 564 40.268 Management Potential (Mp) Main effect ethnicity 2 129.999 2.528 .081 .009 Main effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Error 564 51.429		Interaction	2	97.224	2.414	.090	.008
Special Purpose Scales Management Potential (Mp) Main effect ethnicity 2 129.999 2.528 .081 .009 Main effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Error 564 51.429		Error	564	40.268			
Management Potential (Mp) Main effect ethnicity 2 129.999 2.528 .081 .009 Main effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Work Orientation (Wo) Main effect ethnicity 2 42.314 .832 .435 .003 Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829 .025 .009 Creative Temperament (CT) Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 .025 .009 Interaction 2 22.265 .625 .536 .002 Leadership (Lp) Main effect gender 1 412.224 11.572 .001 .020	Special Purpose Scales						
Main effect gender 1 229.376 4.460 .035 .008 Interaction 2 29.703 .578 .562 .002 Error 564 51.429 51.429 .003 .003 Work Orientation (Wo) Main effect ethnicity 2 42.314 .832 .435 .003 Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829 .025 .009 Creative Temperament (CT) Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 .021 .021 .021 .021 Leadership (Lp) Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000	Management Potential (Mp)	- Main effect ethnicity	2	129.999	2.528	.081	.009
Interaction 2 29.703 .578 .562 .002 Work Orientation (Wo) Main effect ethnicity 2 42.314 .832 .435 .003 Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829 .015 .011 Creative Temperament (CT) Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 .025 .009 Interaction 2 22.265 .625 .536 .002 Leadership (Lp) Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		Main effect gender	1	229.376	4.460	.035	.008
Work Orientation (Wo)Error Main effect ethnicity Main effect gender56451.429Work Orientation (Wo)Main effect ethnicity Pain effect gender242.314.832.435.003Main effect gender1424.0408.343.004.015Interaction212.556.247.781.001Error56450.829		Interaction	2	29.703	.578	.562	.002
Work Orientation (Wo) Main effect ethnicity 2 42.314 .832 .435 .003 Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829		Error	564	51.429			
Main effect gender 1 424.040 8.343 .004 .015 Interaction 2 12.556 .247 .781 .001 Error 564 50.829 .042 .011 Main effect ethnicity 2 229.037 3.198 .042 .011 Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 .025 .002 Leadership (Lp) Main effect ethnicity 2 22.265 .625 .536 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000	Work Orientation (Wo)	Main effect ethnicity	2	42.314	.832	.435	.003
Interaction 2 12.556 .247 .781 .001 Error 564 50.829 50.829 .042 .011 Main effect ethnicity 2 229.037 3.198 .042 .011 Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 .025 .002 Leadership (Lp) Main effect ethnicity 2 22.265 .625 .536 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		, Main effect gender	1	424.040	8.343	.004	.015
Error 564 50.829 Creative Temperament (CT) Main effect ethnicity 2 229.037 3.198 .042 .011 Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608		Interaction	2	12.556	.247	.781	.001
Creative Temperament (CT) Main effect ethnicity 2 229.037 3.198 .042 .011 Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 71.608 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		Error	564	50.829			
Main effect gender 1 360.560 5.035 .025 .009 Interaction 2 102.170 1.427 .241 .005 Error 564 71.608	Creative Temperament (CT)	Main effect ethnicity	2	229.037	3.198	.042	.011
Interaction 2 102.170 1.427 .241 .005 Error 564 71.608 71.608 .002 .002 .002 Leadership (Lp) Main effect ethnicity 2 22.265 .625 .536 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		Main effect gender	1	360.560	5.035	.025	.009
Leadership (Lp) Main effect ethnicity 2 22.265 .625 .536 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		Interaction	2	102 170	1 427	241	005
Leadership (Lp) Main effect ethnicity 2 22.265 .625 .536 .002 Main effect gender 1 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000		Frror	- 564	71 608	1.127		
Main effect gender 412.224 11.572 .001 .020 Interaction 2 .860 .024 .976 .000	l eadership (l p)	Main effect ethnicity	2	22 265	625	536	002
Interaction 2 .860 .024 .976 .000		Main effect gender	1	412 224	11 572	.001	020
		Interaction	2	860	024	.976	000
Error 564 35.624		Error	- 564	35,624	.021		

CPI Scale		df	Mean Square	F	Sig.	Partial η^2
Amicability (Ami)	Main effect ethnicity	2	81.262	1.267	.283	.004
	Main effect gender	1	30.057	.469	.494	.001
	Interaction	2	64.902	1.012	.364	.004
	Error	564	64.145			
Law Enforcement Orientation	Main effect ethnicity	2	101.132	1.246	.288	.004
(Leo)	Main effect gender	1	1171.545	14.432	.000	.025
	Interaction	2	74.849	.922	.398	.003
	Error	564	81.177			
Tough-mindedness (Tm)	Main effect ethnicity	2	174.348	4.101	.017	.014
	Main effect gender	1	440.561	10.364	.001	.018
	Interaction	2	30.300	.713	.491	.003
	Error	564	42.509			
Vector Scales	_					
Externality/Internality (v.1)	Main effect ethnicity	2	18.507	.281	.755	.001
	Main effect gender	1	1138.444	17.276	.000	.030
	Interaction	2	159.134	2.415	.090	.008
	Error	564	65.897			
Norm-doubting/Norm-favoring	Main effect ethnicity	2	39.192	.577	.562	.002
(v.2)	Main effect gender	1	16.358	.241	.624	.000
	Interaction	2	1.413	.021	.979	.000
	Error	564	67.962			
Ego-integration (v.3)	Main effect ethnicity	2	30.549	.569	.567	.002
	Main effect gender	1	180.428	3.359	.067	.006
	Interaction	2	84.762	1.578	.207	.006
	Error	564	53.721			

	African American (J)			Caucasian (J)			Latino/Hispanic (J)			
CPI Scale		Mean	Std.	Sig.	Mean	Std.	Sig.	Mean	Std.	Sig.
		Difference	Error		Difference	Error		Difference	Error	
		(I-J)			(I-J)			(I-J)		
Social Presence	African American (I)				-2.6045*	.8333	.005	5865	.8333	.761
(Sp)	Caucasian (I)	2.6045*	.8333	.005				2.0180*	.8333	.042
	Latino/Hispanic (I)	.5865	.8333	.761	-2.0180*	.8333	.042			
Self-control	African American (I)				2.6942*	.8620	.005	.8652	.8620	.575
(Sc)	Caucasian (I)	-2.6942*	.8620	.005				-1.8290	.8620	.086
	Latino/Hispanic (I)	8652	.8620	.575	1.8290	.8620	.086			
Good Impression	African American (I)				3.6465*	1.018	.001	2681	1.018	.963
(Gi)	Caucasian (I)	-3.6465*	1.018	.001				-3.9145*	1.018	.000
	Latino/Hispanic (I)	.2681	1.018	.963	3.9145*	1.018	.000			
Communality	African American (I)				-1.8122*	.6059	.008	.2607	.6059	.903
(Cm)	Caucasian (I)	1.8122*	.6059	.008				2.0729*	.6059	.002
	Latino/Hispanic (I)	2607	.6059	.903	-2.0729*	.6059	.002			
Tolerance	African American (I)				-1.9029*	.7484	.030	0693	.7484	.995
(To)	Caucasian (I)	1.9029*	.7484	.030				1.8336*	.7484	.039
	Latino/Hispanic (I)	.0693	.7484	.995	-1.8336*	.7484	.039			
Achievement via	African American (I)				2.3807*	.6659	.001	.8391	.6659	.418
Conformance	Caucasian (I)	-2.3807*	.6659	.001				-1.5416	.6659	.055
(Ac)	Latino/Hispanic (I)	8391	.6659	.418	1.5416	.6659	.055			
Achievement via	African American (I)				8569	.6349	.368	1.0850	.6349	.203
Independence	Caucasian (I)	.8569	.6349	.368				1.9419*	.6349	.007
(Ai)	Latino/Hispanic (I)	-1.0850	.6349	.203	1.9419*	.6349	.007			
Intellectual	African American (I)				-1.8425*	.6558	.014	3577	.6558	.849
Efficiency	Caucasian (I)	1.8425*	.6558	.014				1.4848	.6558	.062
(le)	Latino/Hispanic (I)	.3577	.6558	.849	-1.4848	.6558	.062			
Femininity/	African American (I)				2.1095*	.6511	.004	.7249	.6511	.506
Masculinity	Caucasian (I)	-2.1095*	.6511	.004				-1.3845	.6511	.085
(F/M)	Latino/Hispanic (I)	7249	.6511	.506	1.3845	.6511	.085			
Tough-	African American (I)				1.8874*	.6689	.014	1.2286	.6689	.159
Mindedness	Caucasian (I)	-1.8874*	.6689	.014				6588	.6689	.587
(Tm)	Latino/Hispanic (I)	-1.2286	.6689	.159	.6588	.6689	.587	_		

Table 4. Significant Tukey HSD Post Hoc Analyses of the Folk and Special Purpose Scales

Note: * The mean difference is significant at the .05 level.

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