# Predicted values

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | |
|  | plec | | | Statistic | Std. Error |
| korupcja | Male | Mean | | 7.37 | .031 |
| 95% Confidence Interval for Mean | Lower Bound | 7.31 |  |
| Upper Bound | 7.43 |  |
| 5% Trimmed Mean | | 7.53 |  |
| Median | | 8.00 |  |
| Variance | | 5.758 |  |
| Std. Deviation | | 2.400 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 4 |  |
| Skewness | | -.694 | .032 |
| Kurtosis | | -.389 | .064 |
| Female | Mean | | 7.40 | .029 |
| 95% Confidence Interval for Mean | Lower Bound | 7.34 |  |
| Upper Bound | 7.45 |  |
| 5% Trimmed Mean | | 7.54 |  |
| Median | | 8.00 |  |
| Variance | | 5.168 |  |
| Std. Deviation | | 2.273 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 4 |  |
| Skewness | | -.594 | .031 |
| Kurtosis | | -.402 | .062 |
| gospodarka | Male | Mean | | 6.28 | .037 |
| 95% Confidence Interval for Mean | Lower Bound | 6.21 |  |
| Upper Bound | 6.36 |  |
| 5% Trimmed Mean | | 6.37 |  |
| Median | | 7.00 |  |
| Variance | | 8.222 |  |
| Std. Deviation | | 2.867 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 5 |  |
| Skewness | | -.345 | .032 |
| Kurtosis | | -.980 | .064 |
| Female | Mean | | 6.11 | .037 |
| 95% Confidence Interval for Mean | Lower Bound | 6.03 |  |
| Upper Bound | 6.18 |  |
| 5% Trimmed Mean | | 6.17 |  |
| Median | | 6.00 |  |
| Variance | | 8.256 |  |
| Std. Deviation | | 2.873 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 4 |  |
| Skewness | | -.292 | .031 |
| Kurtosis | | -.987 | .062 |
| technologia | Male | Mean | | 7.59 | .031 |
| 95% Confidence Interval for Mean | Lower Bound | 7.53 |  |
| Upper Bound | 7.65 |  |
| 5% Trimmed Mean | | 7.79 |  |
| Median | | 8.00 |  |
| Variance | | 5.625 |  |
| Std. Deviation | | 2.372 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 4 |  |
| Skewness | | -.941 | .032 |
| Kurtosis | | .185 | .064 |
| Female | Mean | | 7.36 | .030 |
| 95% Confidence Interval for Mean | Lower Bound | 7.30 |  |
| Upper Bound | 7.41 |  |
| 5% Trimmed Mean | | 7.52 |  |
| Median | | 8.00 |  |
| Variance | | 5.430 |  |
| Std. Deviation | | 2.330 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 4 |  |
| Skewness | | -.696 | .031 |
| Kurtosis | | -.214 | .062 |
| demokracja | Male | Mean | | 8.43 | .027 |
| 95% Confidence Interval for Mean | Lower Bound | 8.38 |  |
| Upper Bound | 8.49 |  |
| 5% Trimmed Mean | | 8.67 |  |
| Median | | 9.00 |  |
| Variance | | 4.428 |  |
| Std. Deviation | | 2.104 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 3 |  |
| Skewness | | -1.467 | .032 |
| Kurtosis | | 1.671 | .064 |
| Female | Mean | | 8.30 | .027 |
| 95% Confidence Interval for Mean | Lower Bound | 8.25 |  |
| Upper Bound | 8.36 |  |
| 5% Trimmed Mean | | 8.52 |  |
| Median | | 9.00 |  |
| Variance | | 4.502 |  |
| Std. Deviation | | 2.122 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 3 |  |
| Skewness | | -1.235 | .031 |
| Kurtosis | | .901 | .062 |
| satysfakcja | Male | Mean | | 7.13 | .028 |
| 95% Confidence Interval for Mean | Lower Bound | 7.07 |  |
| Upper Bound | 7.18 |  |
| 5% Trimmed Mean | | 7.26 |  |
| Median | | 8.00 |  |
| Variance | | 4.579 |  |
| Std. Deviation | | 2.140 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 3 |  |
| Skewness | | -.740 | .032 |
| Kurtosis | | .162 | .064 |
| Female | Mean | | 7.17 | .027 |
| 95% Confidence Interval for Mean | Lower Bound | 7.12 |  |
| Upper Bound | 7.22 |  |
| 5% Trimmed Mean | | 7.30 |  |
| Median | | 8.00 |  |
| Variance | | 4.424 |  |
| Std. Deviation | | 2.103 |  |
| Minimum | | 1 |  |
| Maximum | | 10 |  |
| Range | | 9 |  |
| Interquartile Range | | 3 |  |
| Skewness | | -.759 | .031 |
| Kurtosis | | .207 | .062 |

DLA DEMOKRACJI PRZEPROWADZAM NIEPARAMETRYCZNĄ ALTERNATYWĘ- Man U Whitney Test

## Satysfakcja, Technologia, Gospodarka, Korupcja

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | | | | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | | | | | | | |
| F | Sig. | t | df | Significance | | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference | |
| One-Sided p | Two-Sided p | Lower | Upper |
| satysfakcja | Equal variances assumed | .579 | .447 | -1.105 | 12031 | .135 | .269 | -.043 | .039 | -.119 | .033 |
| Equal variances not assumed |  |  | -1.105 | 11987.987 | .135 | .269 | -.043 | .039 | -.119 | .033 |
| korupcja | Equal variances assumed | 15.327 | <.001 | -.610 | 12031 | .271 | .542 | -.026 | .043 | -.109 | .058 |
| Equal variances not assumed |  |  | -.610 | 11919.724 | .271 | .542 | -.026 | .043 | -.110 | .058 |
| gospodarka | Equal variances assumed | .646 | .421 | 3.365 | 12031 | <.001 | <.001 | .176 | .052 | .074 | .279 |
| Equal variances not assumed |  |  | 3.365 | 12011.117 | <.001 | <.001 | .176 | .052 | .074 | .279 |
| technologia | Equal variances assumed | .087 | .768 | 5.540 | 12031 | <.001 | <.001 | .237 | .043 | .153 | .322 |
| Equal variances not assumed |  |  | 5.538 | 11987.256 | <.001 | <.001 | .237 | .043 | .153 | .322 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | plec | N | Mean | Std. Deviation | Std. Error Mean |
| satysfakcja | Male | 5888 | 7.13 | 2.140 | .028 |
| Female | 6145 | 7.17 | 2.103 | .027 |
| korupcja | Male | 5888 | 7.37 | 2.400 | .031 |
| Female | 6145 | 7.40 | 2.273 | .029 |
| gospodarka | Male | 5888 | 6.28 | 2.867 | .037 |
| Female | 6145 | 6.11 | 2.873 | .037 |
| technologia | Male | 5888 | 7.59 | 2.372 | .031 |
| Female | 6145 | 7.36 | 2.330 | .030 |

## Demokracja

|  |  |
| --- | --- |
| **Test Statisticsa** | |
|  | demokracja |
| Mann-Whitney U | 17399443.000 |
| Wilcoxon W | 36283028.000 |
| Z | -3.859 |
| Asymp. Sig. (2-tailed) | <.001 |
| a. Grouping Variable: plec | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ranks** | | | | |
|  | plec | N | Mean Rank | Sum of Ranks |
| demokracja | Male | 5888 | 6134.43 | 36119533.00 |
| Female | 6145 | 5904.48 | 36283028.00 |
| Total | 12033 |  |  |

# Odpowiedzi modelu

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | |
|  | plec | | | Statistic | Std. Error |
| demokracja | Female | Mean | | 6.5355 | .03747 |
| 95% Confidence Interval for Mean | Lower Bound | 6.4621 |  |
| Upper Bound | 6.6090 |  |
| 5% Trimmed Mean | | 6.6506 |  |
| Median | | 7.0000 |  |
| Variance | | 7.506 |  |
| Std. Deviation | | 2.73963 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 2.10 |  |
| Skewness | | -.969 | .033 |
| Kurtosis | | -.145 | .067 |
| Male | Mean | | 6.4097 | .04162 |
| 95% Confidence Interval for Mean | Lower Bound | 6.3281 |  |
| Upper Bound | 6.4913 |  |
| 5% Trimmed Mean | | 6.5108 |  |
| Median | | 7.0000 |  |
| Variance | | 9.260 |  |
| Std. Deviation | | 3.04299 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 4.00 |  |
| Skewness | | -.751 | .033 |
| Kurtosis | | -.731 | .067 |
| gospodarka | Female | Mean | | 6.25172 | .035997 |
| 95% Confidence Interval for Mean | Lower Bound | 6.18115 |  |
| Upper Bound | 6.32229 |  |
| 5% Trimmed Mean | | 6.33524 |  |
| Median | | 7.00000 |  |
| Variance | | 6.927 |  |
| Std. Deviation | | 2.631936 |  |
| Minimum | | 1.000 |  |
| Maximum | | 10.000 |  |
| Range | | 9.000 |  |
| Interquartile Range | | 2.500 |  |
| Skewness | | -.675 | .033 |
| Kurtosis | | -.346 | .067 |
| Male | Mean | | 6.75205 | .026047 |
| 95% Confidence Interval for Mean | Lower Bound | 6.70099 |  |
| Upper Bound | 6.80311 |  |
| 5% Trimmed Mean | | 6.88053 |  |
| Median | | 7.00000 |  |
| Variance | | 3.627 |  |
| Std. Deviation | | 1.904448 |  |
| Minimum | | 1.000 |  |
| Maximum | | 10.000 |  |
| Range | | 9.000 |  |
| Interquartile Range | | 1.000 |  |
| Skewness | | -1.220 | .033 |
| Kurtosis | | 2.193 | .067 |
| korupcja | Female | Mean | | 6.62799 | .040013 |
| 95% Confidence Interval for Mean | Lower Bound | 6.54955 |  |
| Upper Bound | 6.70643 |  |
| 5% Trimmed Mean | | 6.75332 |  |
| Median | | 7.00000 |  |
| Variance | | 8.559 |  |
| Std. Deviation | | 2.925572 |  |
| Minimum | | 1.000 |  |
| Maximum | | 10.000 |  |
| Range | | 9.000 |  |
| Interquartile Range | | 3.000 |  |
| Skewness | | -.811 | .033 |
| Kurtosis | | -.442 | .067 |
| Male | Mean | | 6.64447 | .037941 |
| 95% Confidence Interval for Mean | Lower Bound | 6.57010 |  |
| Upper Bound | 6.71885 |  |
| 5% Trimmed Mean | | 6.77164 |  |
| Median | | 7.00000 |  |
| Variance | | 7.696 |  |
| Std. Deviation | | 2.774078 |  |
| Minimum | | 1.000 |  |
| Maximum | | 10.000 |  |
| Range | | 9.000 |  |
| Interquartile Range | | 2.000 |  |
| Skewness | | -.870 | .033 |
| Kurtosis | | -.155 | .067 |
| satysfakcja | Female | Mean | | 7.0672 | .03773 |
| 95% Confidence Interval for Mean | Lower Bound | 6.9932 |  |
| Upper Bound | 7.1412 |  |
| 5% Trimmed Mean | | 7.2413 |  |
| Median | | 7.5000 |  |
| Variance | | 7.611 |  |
| Std. Deviation | | 2.75881 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 3.00 |  |
| Skewness | | -1.071 | .033 |
| Kurtosis | | .264 | .067 |
| Male | Mean | | 7.0026 | .02984 |
| 95% Confidence Interval for Mean | Lower Bound | 6.9442 |  |
| Upper Bound | 7.0611 |  |
| 5% Trimmed Mean | | 7.1696 |  |
| Median | | 7.2000 |  |
| Variance | | 4.760 |  |
| Std. Deviation | | 2.18168 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 1.22 |  |
| Skewness | | -1.311 | .033 |
| Kurtosis | | 1.774 | .067 |
| technologia | Female | Mean | | 6.5180 | .04358 |
| 95% Confidence Interval for Mean | Lower Bound | 6.4326 |  |
| Upper Bound | 6.6035 |  |
| 5% Trimmed Mean | | 6.6312 |  |
| Median | | 7.5000 |  |
| Variance | | 10.154 |  |
| Std. Deviation | | 3.18651 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 2.50 |  |
| Skewness | | -.867 | .033 |
| Kurtosis | | -.739 | .067 |
| Male | Mean | | 6.8366 | .03931 |
| 95% Confidence Interval for Mean | Lower Bound | 6.7595 |  |
| Upper Bound | 6.9136 |  |
| 5% Trimmed Mean | | 6.9851 |  |
| Median | | 7.5000 |  |
| Variance | | 8.261 |  |
| Std. Deviation | | 2.87424 |  |
| Minimum | | 1.00 |  |
| Maximum | | 10.00 |  |
| Range | | 9.00 |  |
| Interquartile Range | | 1.50 |  |
| Skewness | | -1.166 | .033 |
| Kurtosis | | .139 | .067 |

## Demokracja, Korupcja, Technologia

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | | | | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means | | | | | | | | |
| F | Sig. | t | df | Significance | | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference | |
| One-Sided p | Two-Sided p | Lower | Upper |
| demokracja | Equal variances assumed | 117.898 | <.001 | -2.247 | 10690 | .012 | .025 | -.12582 | .05600 | -.23559 | -.01605 |
| Equal variances not assumed |  |  | -2.247 | 10574.232 | .012 | .025 | -.12582 | .05600 | -.23559 | -.01605 |
| korupcja | Equal variances assumed | 27.418 | <.001 | .299 | 10690 | .383 | .765 | .016483 | .055141 | -.091603 | .124569 |
| Equal variances not assumed |  |  | .299 | 10659.918 | .383 | .765 | .016483 | .055141 | -.091603 | .124569 |
| technologia | Equal variances assumed | 174.375 | <.001 | 5.427 | 10690 | <.001 | <.001 | .31850 | .05869 | .20346 | .43355 |
| Equal variances not assumed |  |  | 5.427 | 10578.270 | <.001 | <.001 | .31850 | .05869 | .20346 | .43355 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | plec | N | Mean | Std. Deviation | Std. Error Mean |
| demokracja | Male | 5346 | 6.4097 | 3.04299 | .04162 |
| Female | 5346 | 6.5355 | 2.73963 | .03747 |
| korupcja | Male | 5346 | 6.64447 | 2.774078 | .037941 |
| Female | 5346 | 6.62799 | 2.925572 | .040013 |
| technologia | Male | 5346 | 6.8366 | 2.87424 | .03931 |
| Female | 5346 | 6.5180 | 3.18651 | .04358 |

WALIDACJA KRZYŻOWA:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ranks** | | | | |
|  | plec\_ | N | Mean Rank | Sum of Ranks |
| demokracja | Male | 5346 | 5352.07 | 28612156.00 |
| Female | 5346 | 5340.93 | 28552622.00 |
| Total | 10692 |  |  |
| korupcja | Male | 5346 | 5306.56 | 28368891.00 |
| Female | 5346 | 5386.44 | 28795887.00 |
| Total | 10692 |  |  |
| technologia | Male | 5346 | 5398.29 | 28859282.00 |
| Female | 5346 | 5294.71 | 28305496.00 |
| Total | 10692 |  |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test Statisticsa** | | | |
|  | demokracja | korupcja | technologia |
| Mann-Whitney U | 14260091.000 | 14076360.000 | 14012965.000 |
| Wilcoxon W | 28552622.000 | 28368891.000 | 28305496.000 |
| Z | -.188 | -1.358 | -1.753 |
| Asymp. Sig. (2-tailed) | .851 | .175 | .080 |
| a. Grouping Variable: plec\_ | | | |

Obraz zawierający tekst, zrzut ekranu, Czcionka, dokument

Opis wygenerowany automatycznie

## Gospodarka, Satysfakcja

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ranks** | | | | |
|  | plec\_ | N | Mean Rank | Sum of Ranks |
| gospodarka | Male | 5346 | 5580.52 | 29833447.50 |
| Female | 5346 | 5112.48 | 27331330.50 |
| Total | 10692 |  |  |
| satysfakcja | Male | 5346 | 5116.86 | 27354721.00 |
| Female | 5346 | 5576.14 | 29810057.00 |
| Total | 10692 |  |  |

|  |  |  |
| --- | --- | --- |
| **Test Statisticsa** | | |
|  | gospodarka | satysfakcja |
| Mann-Whitney U | 13038799.500 | 13062190.000 |
| Wilcoxon W | 27331330.500 | 27354721.000 |
| Z | -7.973 | -7.747 |
| Asymp. Sig. (2-tailed) | <.001 | <.001 |
| a. Grouping Variable: plec\_ | | |