Problem 3.20 - The Most Favorite Composers Poll 28

22:13 Monday, June 1, 2009

The FREQ Procedure

VOTE Frequency Percent

ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Handel 4 14.81

Mozart 4 14.81

Beethoven 3 11.11

Hayden 3 11.11

Schumann 3 11.11

Bach 2 7.41

Scarlatti 2 7.41

Schubert 2 7.41

Shostakovich 2 7.41

Brahms 1 3.70

Stravinsky 1 3.70

Chi-Square Test for Composer Preference 29

22:13 Monday, June 1, 2009

The FREQ Procedure

Table of VOTE by GENDER

VOTE GENDER

Frequency ‚

Percent ‚

Row Pct ‚

Col Pct ‚F ‚M ‚ Total

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Bach ‚ 2 ‚ 0 ‚ 2

‚ 7.41 ‚ 0.00 ‚ 7.41

‚ 100.00 ‚ 0.00 ‚

‚ 16.67 ‚ 0.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Handel ‚ 3 ‚ 1 ‚ 4

‚ 11.11 ‚ 3.70 ‚ 14.81

‚ 75.00 ‚ 25.00 ‚

‚ 25.00 ‚ 6.67 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Scarlatti ‚ 1 ‚ 1 ‚ 2

‚ 3.70 ‚ 3.70 ‚ 7.41

‚ 50.00 ‚ 50.00 ‚

‚ 8.33 ‚ 6.67 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Hayden ‚ 2 ‚ 1 ‚ 3

‚ 7.41 ‚ 3.70 ‚ 11.11

‚ 66.67 ‚ 33.33 ‚

‚ 16.67 ‚ 6.67 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Mozart ‚ 1 ‚ 3 ‚ 4

‚ 3.70 ‚ 11.11 ‚ 14.81

‚ 25.00 ‚ 75.00 ‚

‚ 8.33 ‚ 20.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Beethoven ‚ 0 ‚ 3 ‚ 3

‚ 0.00 ‚ 11.11 ‚ 11.11

‚ 0.00 ‚ 100.00 ‚

‚ 0.00 ‚ 20.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Total 12 15 27

44.44 55.56 100.00

(Continued)

Chi-Square Test for Composer Preference 30

22:13 Monday, June 1, 2009

The FREQ Procedure

Table of VOTE by GENDER

VOTE GENDER

Frequency ‚

Percent ‚

Row Pct ‚

Col Pct ‚F ‚M ‚ Total

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Schubert ‚ 1 ‚ 1 ‚ 2

‚ 3.70 ‚ 3.70 ‚ 7.41

‚ 50.00 ‚ 50.00 ‚

‚ 8.33 ‚ 6.67 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Brahms ‚ 1 ‚ 0 ‚ 1

‚ 3.70 ‚ 0.00 ‚ 3.70

‚ 100.00 ‚ 0.00 ‚

‚ 8.33 ‚ 0.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Schumann ‚ 0 ‚ 3 ‚ 3

‚ 0.00 ‚ 11.11 ‚ 11.11

‚ 0.00 ‚ 100.00 ‚

‚ 0.00 ‚ 20.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Stravinsky ‚ 1 ‚ 0 ‚ 1

‚ 3.70 ‚ 0.00 ‚ 3.70

‚ 100.00 ‚ 0.00 ‚

‚ 8.33 ‚ 0.00 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Shostakovich ‚ 0 ‚ 2 ‚ 2

‚ 0.00 ‚ 7.41 ‚ 7.41

‚ 0.00 ‚ 100.00 ‚

‚ 0.00 ‚ 13.33 ‚

ƒƒƒƒƒƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆƒƒƒƒƒƒƒƒˆ

Total 12 15 27

44.44 55.56 100.00

Chi-Square Test for Composer Preference 31

22:13 Monday, June 1, 2009

The FREQ Procedure

Statistics for Table of VOTE by GENDER

Statistic DF Value Prob

ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Chi-Square 10 14.1750 0.1652

Likelihood Ratio Chi-Square 10 18.7343 0.0438

Mantel-Haenszel Chi-Square 1 4.3594 0.0368

Phi Coefficient 0.7246

Contingency Coefficient 0.5867

Cramer's V 0.7246

WARNING: 100% of the cells have expected counts less

than 5. Chi-Square may not be a valid test.

Fisher's Exact Test

ƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒƒ

Table Probability (P) 1.104E-05

Pr <= P 0.1312

Sample Size = 27