Lesson 13.2 Practice: Chi-Square Tests for Two-Way Tables

School Launch · Statistics · Unit 13: Chi-Square Tests · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. For the table 56 27; 54 46 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. EASY

2. For the table 19 47; 18 31 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. EASY

3. For the table 10 33; 55 49 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. EASY

4. For the table 24 21; 44 37 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. MEDIUM

5. For the table 33 10; 33 28 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. MEDIUM

6. For the table 22 12; 54 35 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. MEDIUM

7. For the table 45 50; 24 30 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. MEDIUM

8. For the table 25 22; 10 14; 22 51 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. HARD

9. For the table 58 42; 50 56; 58 29 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. HARD

10. For the table 10 44; 51 60; 44 29 (rows; 2 columns), find the expected count for the top-left cell (two decimals), χ^2 (two decimals) and df. HARD