Lesson 12.1 Practice: Comparing Two Proportions

School Launch · Statistics · Unit 12: Comparing Two Groups · 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. Group 1: 95 of 369; Group 2: 110 of 210. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). EASY

2. Group 1: 58 of 385; Group 2: 30 of 186. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). EASY

3. Group 1: 89 of 222; Group 2: 177 of 266. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). EASY

4. Group 1: 51 of 105; Group 2: 290 of 377. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). MEDIUM

5. Group 1: 133 of 221; Group 2: 191 of 236. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). MEDIUM

6. Group 1: 92 of 183; Group 2: 100 of 358. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). MEDIUM

7. Group 1: 93 of 152; Group 2: 136 of 226. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). MEDIUM

8. Group 1: 82 of 290; Group 2: 246 of 288. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). HARD

9. Group 1: 37 of 140; Group 2: 210 of 314. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). HARD

10. Group 1: 74 of 370; Group 2: 110 of 331. Find $\hat{p}_1 - \hat{p}_2$ (four decimals), the pooled $\hat{p}$ (four decimals) and z (two decimals). HARD