Lesson 12.4 Practice: Choosing the Right Procedure

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. Name the inference procedure for each: (1) comparing the proportion of left-handers in two independent random samples; (2) testing whether a die is fair from 120 rolls. EASY

2. Name the inference procedure for each: (1) comparing mean yields of two independent groups of plots; (2) comparing the proportion of left-handers in two independent random samples. EASY

3. Name the inference procedure for each: (1) testing whether a die is fair from 120 rolls; (2) testing a claim about one population proportion. EASY

4. Name the inference procedure for each: (1) comparing before/after scores on the same students; (2) comparing mean yields of two independent groups of plots; (3) testing a claim about one population proportion. MEDIUM

5. Name the inference procedure for each: (1) testing whether a die is fair from 120 rolls; (2) testing whether gender and voting preference are associated; (3) comparing before/after scores on the same students. MEDIUM

6. Name the inference procedure for each: (1) testing whether a die is fair from 120 rolls; (2) comparing mean yields of two independent groups of plots; (3) comparing the proportion of left-handers in two independent random samples. MEDIUM

7. Name the inference procedure for each: (1) comparing mean yields of two independent groups of plots; (2) testing whether gender and voting preference are associated; (3) comparing the proportion of left-handers in two independent random samples. MEDIUM

8. Name the inference procedure for each: (1) testing whether gender and voting preference are associated; (2) comparing the proportion of left-handers in two independent random samples; (3) estimating the mean height from one random sample, σ unknown; (4) testing whether a die is fair from 120 rolls. HARD

9. Name the inference procedure for each: (1) testing whether gender and voting preference are associated; (2) comparing the proportion of left-handers in two independent random samples; (3) comparing before/after scores on the same students; (4) estimating the mean height from one random sample, σ unknown. HARD

10. Name the inference procedure for each: (1) comparing mean yields of two independent groups of plots; (2) comparing before/after scores on the same students; (3) estimating the mean height from one random sample, σ unknown; (4) testing a claim about one population proportion. HARD