Lesson 9.1 Practice: Parameters, Statistics and Sampling Variability

School Launch · Statistics · Unit 9: Sampling Distributions · 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. In a sample of 475 voters, 377 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. EASY

2. In a sample of 84 voters, 8 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. EASY

3. In a sample of 308 voters, 96 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. EASY

4. In a sample of 201 voters, 67 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. MEDIUM

5. In a sample of 81 voters, 31 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. MEDIUM

6. In a sample of 86 voters, 31 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. MEDIUM

7. In a sample of 81 voters, 18 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. MEDIUM

8. In a sample of 498 voters, 245 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. HARD

9. In a sample of 99 voters, 28 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. HARD

10. In a sample of 173 voters, 88 support a measure. Give the statistic $\hat{p}$ (four decimals) and name the parameter it estimates. HARD