

Learning Targets for Ch. 1 Speaking of Statistics

1.A: I can define basic statistical terms and identify them in the context of a problem.

1.B: I can use the margin of error to create and explain confidence intervals.

1.C: I can describe and identify different sampling methods.

1.D: I can explain potential sources of bias in statistical studies.

1.E: I can use the language of observational studies and experiments to explain key issues and concepts.

Learning Targets for Ch. 2 Measurement in Statistics

2.A: I can identify data as quantitative or qualitative, discrete or continuous, and by level of measurement.

2.B: I can explain and calculate different types of errors in measurements.

2.C: I can calculate percentages to report statistical change.

2.D: I can calculate and explain index numbers to report statistical change.

Learning Targets for Ch. 3 Visual Displays of Data

3.A: I can create and interpret frequency tables.

3.B: I can create and interpret graphs of qualitative data.

3.C: I can create and interpret graphs of quantitative data.

Learning Targets for Ch. 4 Describing Data

4.A: I can calculate and use an appropriate measure of center.

4.B: I can describe the shape of a distribution.

4.C: I can calculate and use appropriate measures of variation.

Learning Targets for Ch. 6

6.A: I can calculate theoretical and relative frequency probabilities and identify subjective probabilities.

6.B: I can create and use a probability distribution to find probabilities.

6.C: I can describe statistical significance.

6.D: I can calculate and explain expected values.

Learning Targets for Ch. 5

5.A: I can find percentages and values using the 68-95-99.7 rule.

5.B: I can find percentages and values using z-scores and the standard normal distribution.

5.C: I can find percentages and values using the Central Limit Theorem for the distribution of means.

Learning Targets for Ch. 8

8.A: I can find a probability based on a sampling distribution of sample means or sample proportions.

8.B: I can construct and interpret a confidence interval for a population mean or a population proportion.

8.C: I can find the minimum sample size for a desired margin of error.

Learning Targets for Ch. 9

9.A: I can define the parameter and create hypotheses for a hypothesis test.

9.B: I can use a z-score and P-value to make a decision for a hypothesis test.

9.C: I can describe type I and type II errors in context.

9.D: I can carry out the entire four-step process for a hypothesis test.

Learning Targets for Ch. 7

7.A: I can interpret the strength and direction of a scatterplot and estimate the correlation coefficient, r .

7.B: I can explain cautions when dealing with correlation.

7.C: I can calculate and use an LSRL to make predictions.