

Supporting the Underprepared Student

Statistical Reasoning

Students in a regular Statistical Reasoning class will complete Preview Assignments prior to coming to class that will prepare them to successfully engage with the In-Class Activities. Students in the co-requisite class will complete worksheets during the support class that will enable them to go home and successfully engage in the Preview Assignment on their own.

Lesson Number	Co-Requisite Worksheet Content	Preview Assignment Content	In-Class Activity Content
1A	Writing proportions and simplifying fractions	There is no Preview Assignment for this lesson.	Evaluating the strength of evidence for or against claims
1B	There is no Co-Requisite Worksheet for this lesson.	There is no Preview Assignment for this lesson.	Student success focus (learning community)
1C	Writing proportions as fractions or percentages	Fractions, proportions; dotplots	Dotplots, describe categorical data
1D	Reading data from a table; converting fractions to percentages	Percentages; Identify important information about a study	The steps of a statistical investigation
1E	Calculating a mean	Mean; observational studies vs. experiments	Observational studies vs. experiments; generalizing conclusions from a statistical study
2A	Calculating a mean	Sampling; Calculating the mean	Sample vs. population vs. census; evaluate a sampling plan
2B	Dot plots; understanding randomness	Generate a set of random numbers; Random sampling methods	Simple random samples; sampling variability
2C	Selecting a random sample	Select a systematic sample	Compare simple random sampling, stratified random sampling, and systematic sampling plans
2D	Making reasonable statements based on data	There is no Preview Assignment for this lesson.	Question wording and bias

Lesson Number	Co-Requisite Worksheet Content	Preview Assignment Content	In-Class Activity Content
3A	Interpreting and operations on signed values	Identify treatment, response, and extraneous variables in a study	Identify variables and experimental conditions of an experiment; control for extraneous variables
3B	Dot plots	Calculate the mean	Random assignment of subjects to experimental groups
3C	Reading and interpreting data in tabular form	Understand the issues involved in giving patients placebos	Control groups, placebos, and blinding; characteristics of a well-designed experiment
3D	Comparing means	Compare means within an experimental study	Evaluate evidence for or against claims in an experiment
3E	There is no Co-Requisite Worksheet for this lesson.	There is no Preview Assignment for this lesson.	Student success focus (study groups)
4A	Comparing values; computing the distance between two numbers	Dotplots; center and spread of a distribution	Use dotplots to estimate values, ranges, and compare data sets
4B	Converting fractions to decimals; computing equal intervals	Fractions and decimals; relative frequencies; histograms	Relative frequencies; compare center, shape, and spread of histograms
4C	Mean and median	Measures of central tendency	Calculate and interpret measures of central tendency
4D	Creating and interpreting histograms	Relative frequencies; center, range, and shape of a distribution	Describe, compare, and interpret two or more graphs
5A	Calculating deviation from the mean; squares and square roots	Calculate deviation, absolute deviation, mean absolute deviation	Compute and interpret variance and standard deviation
5B	5-number summary	5-number summary	Compare 5-number summaries and boxplots

Lesson Number	Co-Requisite Worksheet Content	Preview Assignment Content	In-Class Activity Content
5C	Evaluating algebraic expressions; calculating the interquartile range	Boxplots; measures of center and spread	Outliers; Compare data sets
5D	Using technology to calculate numerical summaries and create graphical displays	Standard deviation; study samples and populations	Compare data sets

Complete Alignment Coming Soon!