

Section 1.1 IRA Guide

Introduction

Screen 1: List of Objectives

Objective 1: Define Statistics and Statistical Thinking

Screen 1: Watch the video that covers the definition of statistics and statistical thinking. The video is a little long (10 minutes), so you might want to try reading through my pointers for Section 1.1 instead.

Screen 2: Multiple choice questions based on the video on screen 1. You will only get one chance at each part of these questions, so be sure you understand all of the material. There is no “Similar Question” available to you if you get this wrong.

Objective 2: Explain the Process of Statistics

Screen 1: Shorter (4 minute) video that goes over some key vocabulary. You might want to check out my pointers for definitions of population, sample, parameter, statistic, descriptive statistics, and inferential statistics.

Screen 2: This problem is based on your understanding of parameters, statistics, populations, and samples.

Screen 3: Click through the steps of a statistical process.

Screen 4: Watch the video that walks through an example of the process of statistics.

Screen 5: This problem goes over the main ideas of the process of statistics. The video on screen 4 should be a big help.

Objective 3: Distinguish between Qualitative and Quantitative Variables

Screen 1: An example of a statistical process that leads to the definition of qualitative and quantitative variables.

Screen 2: Example video shows how to determine whether a variable is qualitative (categorical) or quantitative (numerical).

Screen 3: This problem is based on the example video on screen 2.

Objective 4: Distinguish between Discrete and Continuous Variables

Screen 1: This screen defines discrete variables and continuous variables. Watch the video labeled “In Other Words” for further clarification.

Screen 2: Example video covering how to distinguish between discrete and continuous variables.

Screen 3: This problem is based on the example video on screen 2.

Screen 4: This screen applies previous definition to data rather than variables. The ideas are similar.

Screen 5: Example 4 video goes over how to distinguish between individuals, variables, and data.

Screen 6: This problem is based on Example 4 on the previous screen.

Objective 5: Determine the Level of Measurement of a Variable

Screen 1: Definition of the 4 different levels of measurement. Check out my pointers for more information.

Screen 2: Example 5 covers how to determine the level of measurement.

Screen 3: This problem is based on Example 5 on the previous screen.

Screen 4: End of Section