

Section 5.3 IRA Summary

Introduction

Screen 1: List of Objectives

Objective 1: Identify Independent Events

Screen 1: The video will help you understand the difference between independent events and dependent events.

Screen 2: This problem is based on material from the video from screen 1.

Screen 3: This screen explains the difference between disjoint events and independent events. If two events are disjoint they cannot be independent.

Objective 2: Use the Multiplication Rule for Independent Events

Screen1: Development of Multiplication Rule for Independent Events. We use this when we want to find the probability of E AND F.

Screen 2: Example 1 shows how to use the multiplication rule. Be sure to watch the video solution.

Screen 3: Multiplication Rule for more than 2 events. This is still handled by multiplication.

Screen 4: Example 2 deals with using the Multiplication Rule for more than 2 events. Be sure to watch the video solution.

Screen 5: This problem is based on Example 1 (for part a) and Example 2 (for part b).

Objective 3: Compute At-least Probabilities

Screen 1: Explanation of how to use the complement rule with “at least” probabilities.

Screen 2: Example 3 shows how to work through an “at least 1” probability problem. Be sure to watch the video solution.

Screen 3: This problem is a mixture of Example 2 [part a] and Example 3 [part b].

Screen 4: Summary of the 5 probability rules covered to this point.

Screen 5: End of Section