

MATH 315 Fall 2024  
Assignments 17 and 18

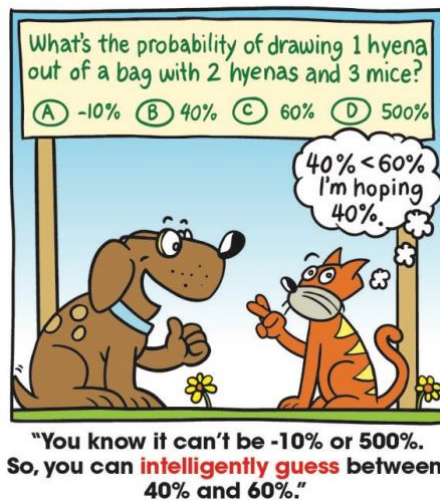
**Assignment 17**  
Due: Wednesday, November 13

I. Reading

Read Section I ("The Need For Probability Models") and Parts A - C of Section II ("What is Probability?") of Chapter 10: **Elementary Probability** of our text.

II. Exercises

Complete Exercises 7 - 11, 13, 31, 32abc of Chapter 10. **Note:** Exercise 7 asks you to prove the various parts of Theorem 1. Note that this theorem states properties held by all probability measures, not just the equiprobable measure. Your proof should make use only of those conditions satisfied by all probability measures; that is, those that are guaranteed by the **definition** of a probability measure.



**Assignment 18**  
Due: Friday, November 15

I. Reading

Read Parts D - F of Section II ("What is Probability?") of Chapter 10: **Elementary Probability** of our text.

II. Exercises

Complete Exercises 12, 18, 20, 27, 28, 30, 36, 37, 44a of Chapter 10.