

Chapter 14: More about Chance

This chapter has one important definition and one important formula.

Read and reread very carefully sections 14.2 and 14.3, and the box on page 250.

Section 14.1: Simple enumeration is often the best method. For example, the result of tossing two dice can be listed in a diagram like that on page 239.

Suggested problems for study: A: pages 240–241: (all) 1–4.

Section 14.2: The central idea for this chapter is in this section. It's a very elusive and tricky concept. Begin by becoming familiar with the three boxes on pages 241 and 242.

The definition of mutually exclusive is most important.

Suggested problems for study: B: pages 242–243: (all) 1–6; especially important 1, 4, and 5

Section 14.3: Example 6 on page 244 is useful practice.

Suggested problems for study: C: pages 246–247: (all) 1–5; especially 2, 4, and 5

Section 14.4: An important way of getting chances is found in the box on page 250.

Suggested problems for study: D: page 250: 1–5; especially 3, 4, and 5

Section 14.5: Just read.

Chapter Summary: page 254: points 1–3 are helpful, especially 2 and 3.

Review Exercises

Homework (pages 252 and 253): 1, 3, 5, 6, 7, 8, 11

Comments on HW:

Problem 1 (b) may be solved in several ways; try to find a very simple method.

Problem 3 is an important application of the main idea of the chapter. It is straightforward.

Problem 5 tests understanding of the definitions of independence and mutual exclusivity.

For problem 6, be sure to write out *two* sentences.

Problem 7 is a key problem for this chapter. Decide if the addition rule applies.

This problem might need the logic of the opposite thing (the negation).

Problem 8 might be answered immediately by logic, although—if you wish—you could use formulas.

Problem 11 is very similar to problem 8 on page 235.

Before proceeding, ask yourself this important question:

“Which of the other two results is the negation of the result in 11 (a)?”

Also look at problems 2, 4, and 9 on pages 252 and 253; and (not as important) problems 10 and 12 on page 233.

Useful practice problems: [ch13-14practice](#), found [here](#).