Chapter 9: Hypothesis Tests: Introduction, Basic Concepts, and an Example

Example 2

1 - pbinom(6, 15, 1/3)

1 - pbinom(8, 15, 1/3)

Example 4

pbinom(8, 15, 0.70)

pbinom(6, 15, 0.70)

Example 5

1 - pbinom(8, 15, 1/3)

End-of-Chapter 9 Exercises

Exercise 1

1 - pbinom(7, 14, 1/3)

sum(dbinom(8:14, 14, 1/3))

Exercise 2

pbinom(7, 14, 0.80)

sum(dbinom(0:7, 14, 0.80))

Exercise 3

1 - pbinom(9, 14, 1/3)

sum(dbinom(10:14, 14, 1/3))

Exercise 4

pbinom(9, 14, 0.80)

sum(dbinom(0:9, 14, 0.80))

R Functions

- . 1 pbinom(6, 15, 1/3) Provides the binomial probability of x = 7or more successes in n = 15 trials with the probability of success on each trial equal to p = 1/3.
- . 1 pbinom(8, 15, 1/3) Provides the binomial probability of x = 9or more successes in n = 15 trials with the probability of success on each trial equal to p = 1/3.
- . pbinom(8, 15, 0.70) Provides the binomial probability of x = 8 or fewer successes in n = 15 trials with the probability of success on each trial equal to p = 0.70.
- . pbinom(6, 15, 0.70) Provides the binomial probability of x = 6 or fewer successes in n = 15 trials with the probability of success on each trial equal to p = 0.70.