Chapter 11. c - Wrapping Up Simulations

1) Review of Pg. 265b
2) Activity: Complete Simulation
3) Practice Quiz
4) Quiz 11?
5) Pre-Reading for Unit 12 and IT #11

Pg. 265, #19, 20, 25, 26, 31, 33, 36

19. Multiple choice
   Answers will vary. A component is one multiple-choice question. One possible way to model this component is to generate random digits 0-9. Let digits 0-7 represent a correct answer, and let digits 8 and 9 represent an incorrect answer. Each trial will consist of 6 random digits. The response variable is whether or not all 6 simulated questions are answered correctly (all 6 digits are 0-7). The total number of successes divided by the total number of trials will be the simulated probability of getting all 6 questions right. According to the simulation, the probability of getting all 6 multiple-choice questions correct is expected to be about 26%.
Suppose we are to randomly select three students from the class to speak at Parents’ Night about the joys of taking AP Stats. How likely is it that we will have three seniors?

a) Design the simulation
b) Use the random number table to simulate

15 students  12 senior

Component

Trial

Response Variable

Statistic

Component  Select a student from the 15 in class. Using a random number table, 00-04 represents student 1, 05-09, represents student 2 and so on. Students 1, 2, and 3 are not seniors. 75 - 99 will be ignored.

Trial  Select three students, by looking at three two digit numbers from a random digit table. If a "student" repeats, then look at a fourth number to complete the group of 3. Continue until you have a group of three students

Response Variable  "yes" or "no" indicating whether the selection contained all three seniors

Statistic  find the percentage of trials that produced an all senior selection
Assignment (Due Thursday, November 19)

1) Complete "practice quiz"

2) Read through IT #11

3) Test Corrections due Monday (Nov 23)
Assignment (Due Thursday, November 19)

1) Complete "practice quiz"

2) Read Chapter 12, Pg. 268 - 272a
   [3 ideas and a census]

3) Read through IT #11

4) Test Corrections due Monday (Nov 23)