

AP Statistics: Assignment Sheet (Ch. 4 – 7)

Students are expected to read the textbook before a topic is introduced so that more class time may be spent on discussion, viewing short videos, hands-on activities, and investigating Web-based applets. Check out the following site <http://bcs.whfreeman.com/tps5e/> . You can also check out <http://bcs.whfreeman.com/tps4e> , which is a link to an old version of our book.

NOTE: ALL READING ASSIGNMENTS INCLUDE TAKING NOTES ON WHAT YOU READ. Reading quizzes may be given at any time in which you may use your OWN NOTES.

Chapter 4: Designing Studies

- 1 Read p. 207 – 218.
- 2 Do p. 229 #2, 4, 6, 9, 11, 13, 15. Read pages 219 – 229.
- 3 Do p. 231 #17, 19, 21, 24, 26, 28, 35, 43. Read pages 234 – 250.
- 4 Do p. 259 #45, 48, 51, 54, 57, 59, 63, 66. Read pages 250 – 259.
- 5 Do p. 261 #69, 74, 75, 77, 81, 85, 95. Read pages 266 – 273.
- 6 Do p. 274 #101, 102, 104, 107. Do the Frappy on p. 275.
- 7 Do Review Packet

Test on Chapter 4 and Review

Chapter 5: Probability

- 1 Read p. 287 – 299
- 2 Do p. 300 #1, 3, 8, 9, 11, 14, 15, 22, 30. Read pages 305 – 314.
- 3 Do p. 314 #39, 41, 44, 45, 48, 49, 52, 53, 55. Read pages 318 – 326.
- 4 Do p. 333 #63, 66, 67, 72, 74, 75, 80. Read p. 326 – 333.
- 5 Do p. 335 #82, 83, 86, 87, 88, 91, 93, 95. Do the Frappy on p. 338
- 6 Do Probability Worksheets. Run applet at <http://www.stat.tamu.edu/~west/applets/Venn.html>
- 7 Do Review Packet

Test on Chapter 5 and Review

Chapter 6: Random Variables

- 1 Read p. 345 – 358.
- 2 Do p. 359 #4, 5, 7, 10, 14, 18, 20, 25. Read pages 363 – 375.
- 3 Do p. 382 #35, 37, 41, 42, 45, 48. Read pages 376 – 382.
- 4 Do p. 384 #51, 53, 55, 57, 58, 64. Read pages 386 – 396.
- 5 Do p. 410 #69 – 72, 75, 77, 79, 82. Read pages 397 – 404. Run this applet on the binomial distribution: <http://www.stat.wvu.edu/SRS/Modules/Binomial/binomial.html> and investigate the relationship between n , p , and the shape of the probability histogram. Look at $n = 20$ and $p = .1, .2, .5, .8,$ and $.9$. When is the shape symmetric and bell-shaped? Be sure to "resize"!!!
- 6 Do p. 412 #85, 88, 91, 92, 93. Do the Frappy on p. 414
- 7 Do Review Packet

Test on Chapter 6 and Review

Chapter 7: Sampling Distributions

- 1 Read p. 421 – 429
- 2 Do p. 436 #1, 3 – 7. Read pages 430 – 436
- 3 Do p. 437 #10, 12, 16, 18, 19, 26. Read pages 440 – 447.
- 4 Do p. 447 #28, 29, 32, 35, 37, 40.
- 5 Do p. 448 #42 – 48. Read pages 450 – 461.
- 6 Do p. 461 #49, 51, 54, 57, 58.
- 7 Do p. 462 #59, 60, 62, 64. Do the Frappy on p. 464. Run the applet http://onlinestatbook.com/stat_sim/sampling_dist/index.html Be sure that you understand what is happening here!