

ERRATA and CLARIFICATIONS
Probability and Statistics with Applications
September 5, 2013

Page 2, example 1.1-2 Solution

Option GBB is missing from the sample space.

Page 127, question 7

Last sentence should read “Suppose that a player has 3 at-bats in a game and that he is coming off of a hit in his last at-bat in the previous game.”

Page 130, question 16

- In line 3, $n=0,1,2,3,4,5$
- (i) $n=0,1,2,3,4$
- (iii) Should read "fewer than two claims during a given year".

Page 463

In the table at the top of the page, the cell for $r=3$, $\Pr[\text{Type II error}]$, .2556 should be .2586.

Page 470, line 4 of the solution

$\frac{5}{25}$ should be $\frac{5}{10}$.

Page 473

In Example 10.2-2, replace “a waiting time” with “an average waiting time”.

Page 479

- Change line 2 from 10% to 5% level of significance.
- In the sentence just before the graph, the equations should read:

$$\chi^2(20) < \chi^2_{.975}(20) = 9.59, \text{ or } \chi^2(20) > \chi^2_{.025}(20) = 34.17.$$
- The last equation on the page should read:

$$\chi^2(20) > \chi^2_{.05}(20) = 31.41.$$

Page 499

In the table for Exercise 10-23, the total should be 1000, not 100.

Answers to Textbook Exercises

The following answers need to be changed:

- 1-3: The answers listed are for parts (b) and (c) rather than (a) and (b).
- 1-4: shoes – 48 outfits
- 1-10 (e) should be 24
- 1-10 (i) should be 120
- 1-29 (b) should be .2697.
- 1-52: ${}_{44}C_{21}$ should be ${}_{45}C_{21}$.
- Chapter 1 Sample Examination, #2: should be 5,670,000
- 2-43(c) should be .25.
- 2-58 (e) should be .9284.
- 3-9 should be .35.
- 3-15 should be .7.
- 3-17 (c) should be 48,250.
- 3-26 should be 110.55
- 3-36 (a) should be 4.0768 and .7271
- 3-43 (c) should be 1.6667 and .9444
- Chapter 3 Exam
 - number 1 (c) should be 2
 - 1(d) is 1.46
 - 4 (f) should be 203%
 - 6 (b) should be 2.4998
 - 14 (c) should be 247%
 - 15 should be 115.5%
- 4-7 (a) should be .17.
- 4-18: $\Pr[X>2]$ should be .7682, not .2318.
- 4-19: Standard deviation should be 1.9365, not 3.75.
- 4-28: $E[D]$ should be .25, not 2.5.
- 4-46 should be .1445.

- 4-50: .992 should be 1.006.
- 4-65(a): .125
- 4-65(b) 5
- 5-15: There is no numerical answer to part (c).
- Chapter 5 Exam, number 1 (c) should be .245.
- Chapter 5 Exam, number 12 (b) should be 64.
- 6-37 (c) should be 763.
- 6-56(a): .1954
- 7-6 (d) should be .5544.
- 7-45 should be .866.
- 7-53 (b) should be .5.
- 7-60 should be C.
- Chapter 7 Exam, number 1 should be $\frac{1}{2}$.
- 8-26: delete parts (c) and (d).
- Listed answers to 9-13, 9-14, and 9-15 are actually the answers to 9-14, 9-15, and 9-16.
- 9-26 should be 278.
- 10-16 should be to reject the null hypothesis and accept Lori's claim.