

This is the first set of corrections for *Probability and Statistical Inference*, seventh edition by Robert V. Hogg and Elliot A. Tanis, ISBN 0-13-146413-2. Actually, some of these “corrections” are really given for clarity.

- Page 13, line 16, add the sentence: Such figures are called Venn diagrams.
- Page 146, in Figure 3.2-3(b) (on the right), $g(y)$ *should be* $G(y)$
- Page 154, line 6 from the bottom, the word **is** *should be* is
- Page 267, in the third line of the display, the = sign *should be* a + sign
- Page 314, Figure 5.7-1: the captions under Figure 5.7-1(b), (c), and (d) are not correct and do not agree with the figure. Here are the corrections:

Figure 5.7-1(b): $b(50, 1/10)$ (shaded); Poisson, $\lambda = 5$ *should be* $b(10, 1/2)$ (shaded); Poisson, $\lambda = 5$

Figure 5.7-1(c): $b(100, 1/20)$ (shaded); Poisson, $\lambda = 5$ *should be* $b(20, 1/4)$ (shaded); Poisson, $\lambda = 5$

Figure 5.7-1(d): $b(200, 1/40)$ (shaded); Poisson, $\lambda = 5$ *should be* $b(50, 1/10)$ (shaded); Poisson, $\lambda = 5$

- Page 336, add the following sentence before lines 13 and 14:

It can be shown that $L''(\bar{x}) < 0$ so that $L(\bar{x})$ is a maximum.

- Page 337, line 19, bold face the words maximum likelihood estimators *so that they become* **maximum likelihood estimators**
- Page 342, line 10 from the bottom *and* line 2 from the bottom, replace the word population *with (for clarification)* the word distribution
- Page 343, line 14, replace the word population *with (for clarification)* the word distribution
- Page 357, line 5, replace the word items *with* the word observations
- Page 430, line 4 from the bottom, the last letter k *should be* n so that it reads $j = 1, 2, \dots, n$.
- Page 473, line 17 from the bottom: for brevity, p -value. The **p -value** *should be replaced with* for brevity, **p -value**. The p -value
- Page 540, line 16, replace the word calculations *with* the word attributes
- Page 666, line 12, $\int_0^b xe^{-1} dx = \dots$ *should be* $\int_0^b xe^{-x} dx = \dots$
- Page 686, $P(Z \leq 1.51) = 0.9345$ rather than 0.9545.
- Page 719, Exercise 6.6-7: The current answer uses only the first 15 numbers because 471 is missing from the CD-ROM. The correct answer is:

6.6-7 (a) [142.72, 386.10]; **(b)** $\bar{x} = 220.69, s = 200.27$, yes.