

Vernoy & Kyle (2002) Errata Sheet

Page 12. Ordinal Scales. Second paragraph, line 5, change **or** to **of**.

Page 14. Visual Summary – Scales of Measurement. Reverse the “**Yes**” and “**No**” in the box with the question, “Are there equal intervals with a meaningful zero point?” Yes should point to the ratio scale and no should point to interval scale.

Page 16. Concept Quiz. Question 4 should not be bold.

Page 24. Grouped Frequency Distributions. Line 3, change **13** to **12**.

Page 48. Problem 32. Change **31** to **30** to read, “In Problem 30...”

Page 67. Table 3.5 – Rotated Stem-and Leaf Diagram. Stem 3 – first leaf should be **5** not **3**. Stem 5 – change the **first 9** leaf to **8**. Stem 7 – add a **9** leaf.

Page 73. Problem 28. Change **re-create** to **recreate**.

Page 73. Problem 29. Reverse number 26 and 29 in column one. Number 29 should be below 26.

Page 74. Problem 38. Sentence should read, “Plot **two** frequency **histograms** using **these** data.”

Page 75. Problem 40. Change the word **Using** to **Combine**.

Page 103. Concept Quiz answer 3 is 8.527.

Page 110. Problem 40. The question should read, “**Can you** create a boxplot from the frequency data of the words recognized?” **Explain**.

Page 123. Table 5.7. Cucamonga College formula is $S_1^2 = \frac{368 - \frac{60^2}{10}}{10 - 1}$

Page 150. Problem 24. Change labels in the table from **Client** to **Pigeon** and **Number of Defense Mechanisms** to **Pecking Rates**.

Page 168. Concept Quiz answer number 8 is **13.57**.

Page 187. Change the first word **count** to **this**.

Page 190. Change the last word of the second paragraph from **here** to **on the previous page**.

Page 201. Problem 16. Change “...**number of pages typed and typing speed**” to “...**the number of assembly line errors and aptitude test scores**.”

Page 229. The last line in the lead in scenario to problem 48, should read “...solve Problems 48-**52**.”

Page 229. Remove the minus sign on the correlation coefficient in the box showing data for problem 48. The correlation should read **.591**.

Page 229. Cut questions 53, 54, and 55.

Page 244. The *z* Test. Line 10 the first two words are printed on top of each other and should read “...**of sample** means that...”

Page 246. Visual Summary. Change the second box to read $z = \frac{\bar{X} - \mu_{\bar{X}}}{\sigma_{\bar{X}}}$

Pages 251/252. Problem 30 should read, “Disregarding the time of day, what is the overall probability that a **male child is watching noneducational television?**”

Page 300. Visual Summary. Add a square root sign to the formula in the second box in the middle column. It should read $estimated\sigma_{diff} = \sqrt{(estimated\sigma_{\bar{X}_1})^2 + (estimated\sigma_{\bar{X}_2})^2}$

Page 301. Concept Quiz answer 3 is **d**.

Page 308. Visual Summary. $Estimated\sigma_{difference} = \sqrt{\frac{\sum D^2}{n} - \bar{D}^2}$

Page 314. Formulas. Add the missing parentheses in Formula 12.11, 12.12, and 12.13.

Page 317. Problem 8. Delete **msec** on all data in the box.

Page 320. Problem 16. Add **$n = 25$** .

Pages 339, 346, & 347. Change the second half of Formulas 13.11 and 13.13 to read

$$\left[\frac{(\sum X_1)^2}{n_1} + \frac{(\sum X_2)^2}{n_2} + \dots + \frac{(\sum X_k)^2}{n_k} \right]$$

Page 340 and 341. Change the second half of the formula for SS_{bg} to

$$\left[\frac{(\sum X_1)^2}{n_1} + \frac{(\sum X_2)^2}{n_2} + \dots + \frac{(\sum X_k)^2}{n_k} \right]$$

Page 349. Problem 6. Line 10, change **search** to **research**.

Page 384. Problems 8 and 9 are reversed numbered. Problem 8 should be 9 and Problem 9 should be 8.

Page 391. The computations for expected frequencies for row 1, column 2 should be $\frac{69 \cdot 34}{99}$ not

$$\frac{69 \cdot 345}{99}$$

Page 416. Visual Summary. Box 4, change **Independen** to **Independent**.

Page 449. Solution to Problem 5. Change Range from **\$42,276** to **\$42,275**.

Page 453. Solution to Problem 25. Cumulative Relative Frequency change **.534** to **.533** and **.151** to **.150**. Cumulative Percent change **53.4** to **53.3** and **15.1** to **15.0**.

Page 458. Solution to Problem 17. Polygon should taper to zero frequency at the midpoint 624.50.

Page 468. Solution to Problem 1. Change **64,974.01** to **6497401** and $\sqrt{41.617}$ to $\sqrt{416.17}$

Page 475. Solution to Problem 1. Change $z = -.50$ to $z = +.50$.

Page 475. Solution to Problem 27. Change Q_1 to Q_3 .

Page 480. Solution to Problem 15. $r^2 = .9139$.

Page 480. Solution to Problem 11. Critical value in Table R = .878

Page 481. Solution to Problem 27. Critical value in Table R = .632

Page 482. Solution to Problem 33. Critical value in Table R = .514

Page 482. Solution to Problem 37. Critical value in Table R = .576.

Page 484. Solution to Problem 47. Critical value in Table R = .468.

Page 485. Solution to Problem 1. $S_X = .1247$ and $S_Y = 9.4428$

Page 485. Solution to Problem 3. $S_{XY} = S_X \cdot \sqrt{1 - r^2} = S_{XY} = .1247 \cdot \sqrt{1 - (-.9434)^2} = .0414$

Page 485. Solution to Problem 5. $\frac{495 - 471.5}{9.4428} = \frac{23.5}{9.4428} = 2.4887$

Page 485. Solution to Problem 7. $\hat{Y} = -71.104X + 663.481$

Page 485. Solution to Problem 9. $\hat{Y} = -71.104(3) + 663.481 = 450.168$

Page 486. Solution to Problem 11. $S_{XY} = 6.5 \cdot \sqrt{.6975^2}$ change to $S_{XY} = 6.5 \cdot \sqrt{.6975}$

Page 487. Solution to Problems 49 and 51. Change **perceived control** to **health score**.

Page 487. Delete Solutions to Problems 53 and 55.

Page 489. Solution to Problem 17b. Change **regular** pattern to **random** pattern.

Page 491. Solution to Problem 5c. Add the missing square sign on the second part of the formula

$$\text{Estimated } \sigma_{diff} = \sqrt{(\text{estimated } \sigma_{\bar{X}_1})^2 + (\text{estimated } \sigma_{\bar{X}_2})^2}$$

Page 492. Solution to Problem 9d. $df = 10 - 1 = 9$.

Page 492. Solution to Problem 9e. Critical $t_{(df=9, p=.05, \text{one-tailed})} = 1.833$.

Page 494. Solution to Problem 19c.

$$\text{Estimated } \sigma_{diff} = \sqrt{\frac{\frac{484}{10} - (-2.70)^2}{10 - 1}} = \sqrt{\frac{48.4 - 7.29}{9}} = \sqrt{4.567} = 2.137$$

$$t = \frac{-2.70}{2.137} = -1.263$$