Answers to Practice Test 3

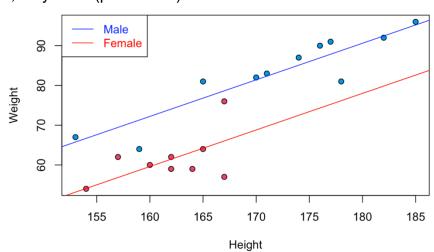
Problem 1

- 1. 0.490
- 2. 0.0083
- 3. 23.84
- 4. 4.29 (or 4)
- 5. 1.6 (CI: 0.914, 2.598)
- 6. 0.202
- 7. 0.829
- 8. Yes, this is ruled out (p=0.0046 via exact method)

Problem 2

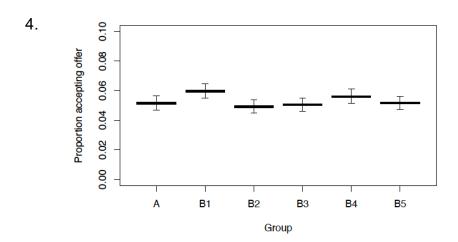
- 1. Yes, they differ (p=0.009)
- 2. Yes, they differ (p=1.75e-5)
- 3. 0.919
- 4. 0.839
- 5. Yes, they differ (p=0.00014)

6.



Problem 3

- 1. A B1 B2 B3 B4 B5 N 8408 8574 8614 8434 8380 8742 Y 457 544 446 448 498 476
- 2. Yes (p=0.015)
- 3. prob CI
 - A 0.052 (0.047-0.056)
 - B1 0.060 (0.055-0.065)
 - B2 0.049 (0.045-0.054)
 - B3 0.050 (0.046-0.055)
 - B4 0.056 (0.051-0.061)
 - B5 0.052 (0.047-0.056)



Note – Marking will be based on both the methods and the results. It may be possible to obtain partial credit from a wrong answer, or to lose credit with a nearly-correct answer if the methodology is incorrect or not documented. Some questions may have multiple, equally valid answers. Submissions will require a complete knitted Rmarkdown file including all code chunks.