

Homework 3 Answers

EPI 525

Book exercises

3.5 Gull clutch size

! Important

Note that the solutions in the back of the book are not quite right. For part (a), the answer is correct, but there is an error in the work and the notation is sloppy. For part (b), the answer is *not* correct, as a result of the error in the work for part (a).

3.6 Scooping ice cream

3.8 Chickenpox, Part I.

For #3.8, you can use R functions to calculate the binomial probabilities instead of directly using the formula. However, include the mathematical formulas that would be used to calculate the probabilities.

3.10 Chickenpox, Part II.

For #3.10, you can use R functions to calculate the binomial probabilities instead of directly using the formula. However, include the mathematical formulas that would be used to calculate the probabilities.

3.20 Area under the curve, Part II

! Important

For this problem:

- Make a sketch of the normal distribution curve with the mean and 1 sd away from the mean clearly labeled, and the area representing probability of interest shaded in.
- Calculate probabilities using R (You can hand write the code you used to find your answer if you do not want submit typed R code or a Quarto document.)

3.22 Triathlon times

3.28 Arsenic poisoning

3.32 Chickenpox, Part III