Module 2, Assignment 1

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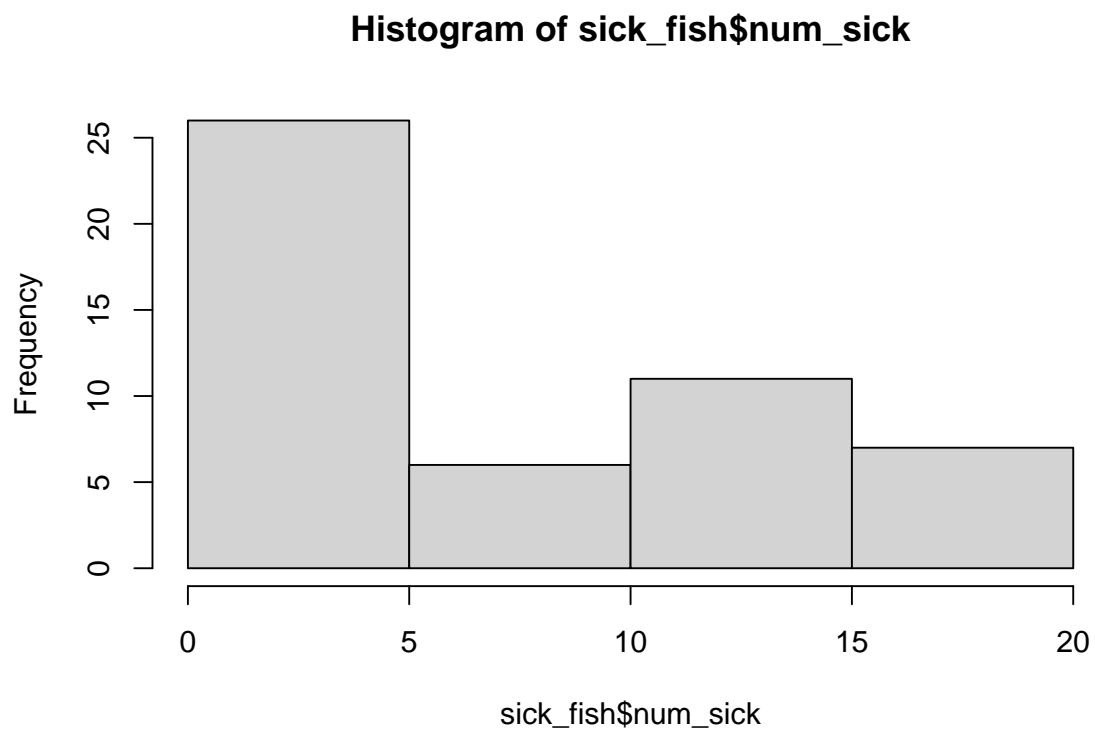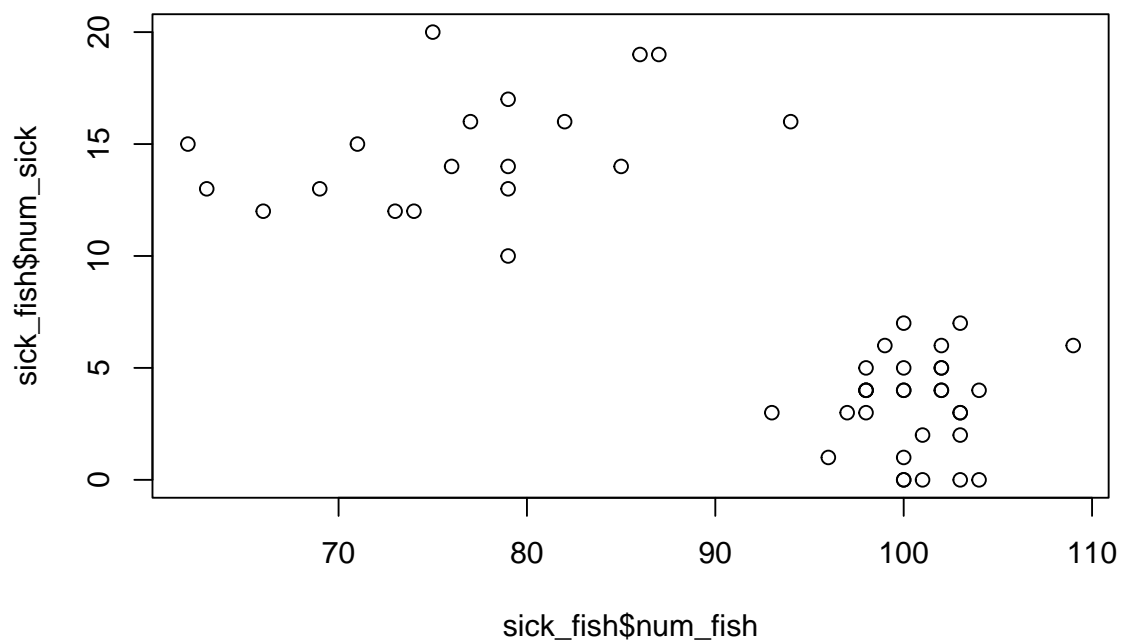
2023-09-24

1.

```
## -- Attaching core tidyverse packages ----------------------- tidyverse 2.0.0 --
## v dplyr     1.1.4     v readr     2.1.5
## v forcats   1.0.0     v stringr   1.5.2
## v ggplot2   4.0.0     v tibble    3.3.0
## v lubridate 1.9.4     v tidyr     1.3.1
## v purrr     1.1.0
## -- Conflicts ------------------------------------------- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
## i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts to become errors
```

```
## Rows: 50 Columns: 7
## -- Column specification ----------------------------------------------------
## Delimiter: ","
## chr (1): species
## dbl (6): tank_id, avg_daily_temp, num_fish, day_length, tank_volume, num_sick
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
```
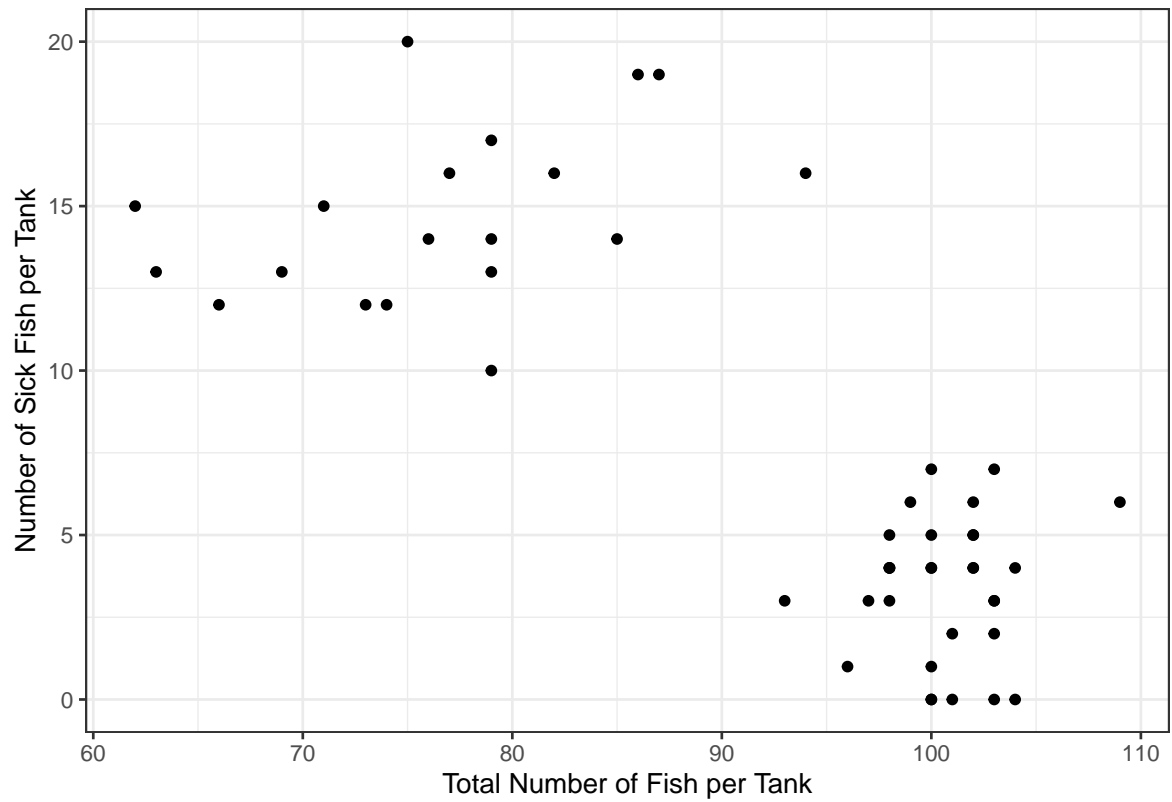
Histogram of sick_fish$num_sick

8.

9.

Using ggplot2

12.

!\[\](Module2_Assignment1_AnswerKey_files/figure-latex/unnamed-chunk-5-1.pdf)<!-- -->

13.

14.
```
## # A tibble: 2 x 3
##   species mean_sick sd_sick
##   <chr>       <dbl>   <dbl>
## 1 tilapia      3.39    2.11
## 2 trout       14.7     2.68
```