

# Homework 5 Answers

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2025-12-01

## Libraries needed

```
library(dplyr)
library(tidyr)
library(broom)
library(purrr)
library(ggplot2)
library(stringr)
library(lubridate)
library(here)
```

## Reading in the data

```
homicides <- read.csv(here("data", "homicide-data.csv"))

# Creating a new column combining city and state
homicides <- homicides %>%
  mutate(city_name = paste(city, state, sep = ", "))

homicides <- homicides %>%
  mutate(reported_date = ymd(reported_date))
```

## Selecting only Baltimore Data

```
baltimore_monthly <- homicides %>%
  filter(city_name == "Baltimore, MD") %>%
  mutate(month = floor_date(reported_date, "month")) %>%
  count(month, name = "homicides")

baltimore_monthly <- baltimore_monthly %>%
  mutate(
    season = ifelse(month %in% c(11, 12, 1, 2, 3, 4),
                    "Winter", "Summer")
  )

freddie_date <- as.Date("2015-04-12")
```