

# Statistical Thinking Week 1 Homework

## Chapter 2 Questions

**2E1.** Which of the expressions below correspond to the statement: the probability of rain on Monday?

Answer:  $\Pr(\text{rain}, \text{Monday})/\Pr(\text{Monday})$

**2E2.** Which of the following statements corresponds to the expression:  $\Pr(\text{Monday}|\text{rain})$ ?

Answer: The probability of rain, given that it is Monday

**2E3.** Which of the expressions below correspond to the statement: *the probability that it is Monday, given that it is raining?*

Answer:  $\Pr(\text{Monday}|\text{rain})$

## Week 1 Homework

### Question 1

Suppose the globe tossing data (Lecture 2, Chapter 2) had turned out to be 3 water and 11 land. Construct the posterior distribution.

