**Part IV: Chapter 4: Relative Frequency Probability Estimates**

**Task 1: Use the data set to estimate the following probabilities.**

* **What is the probability of selecting a female who died if you choose one case at random from the data?**

**P(female death) =**

* **What is the probability of selecting a gunshot death case if you choose one case at random from the data?**

**P(gunshot) =**

* **What is the probability of selecting a white person from Arizona who died if you choose one case at random from the data?**

**P(white Arizonan) =**

* **What is the probability of selecting a female or a Hispanic?**

**P(female OR Hispanic) =**

* **If you selected 2 deaths without replacement what is the probability of selecting 2 consecutive Asian deaths?**

**P(Asian and then Asian) =**

**Task 2: Use the data to estimate the following probabilities. For the denominator value of 2288 since race was recorded in only 2288 cases.**

* **What is the probability of a case involving a European-American (white) person? P(white) =**
* **What is the probability of a case involving a black person?**

**P(black) =**

* **If you are informed that the 2014 demographic breakdown by race in the US indicates that 72.4% of the population is white and 12.6% of the population is black, what conclusions can you draw from the probabilities found above?**