**Part V: Chapter 5: Probabilities for Binomial Distributions**

**Task 1: Open the data set for the year 2014 only and sort the method of death to get the number of gunshot cases. Use this number and the total of 815 cases reported in 2014 to get the probabilities of the cases involving death from a gunshot wound.**

**P(gunshot) =**

**Task 2: Suppose that we randomly select 15 cases of police involved deaths from 2015. Determine if this group can be treated as a binomial distribution. State each requirement.**

**Task 3:**

* **Calculate the probability that less than 8 of the cases in the group of fifteen involved a gunshot death.**
* **Calculate the probability that 8 or more of the cases in the group involved a gunshot death.**
* **Describe the relationship between these results.**

**Task 4: Would it be considered statistically unusual if more than 14 out of the 15 randomly selected cases involved a gunshot death? Compute the probability and explain why**

**Task 5: Would it be considered statistically unusual if exactly 11 out of the 15 randomly selected cases involved a gunshot death? Compute the probability and explain why.**