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**CJC 206-001**

**Homework 03**
**Graphical depictions of data**

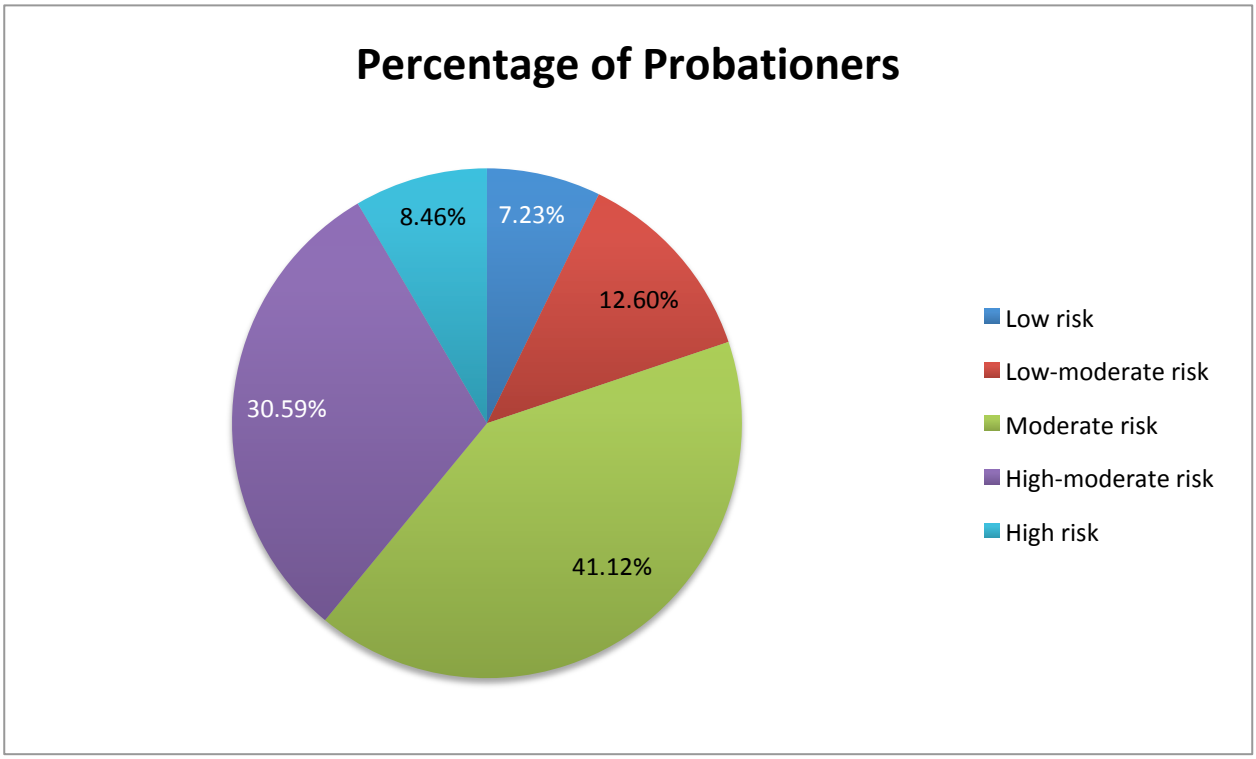
For this homework assignment, use the Excel document on Sakai named "Homework 03 dataset."

1. Refer to the tab labeled "Risk levels_question 1".
   a. Compute the percentage of probationers at each risk level and complete the table below (1 point)

**Risk level of probationers**

| Risk level | Percentage of Probationers |
|---|---|
| Low risk | 7.23% |
| Low-moderate risk | 12.60% |
| Moderate risk | 41.12% |
| High-moderate risk | 30.59% |
| High risk | 8.46% |

   b. Create a pie chart using the percentages in Excel and paste the completed chart below. Be sure to include data labels on the chart (2 point). **Hint: enter the percentages starting in Cell C12. Data labels can be added by right clicking the chart and selecting "add data labels."**

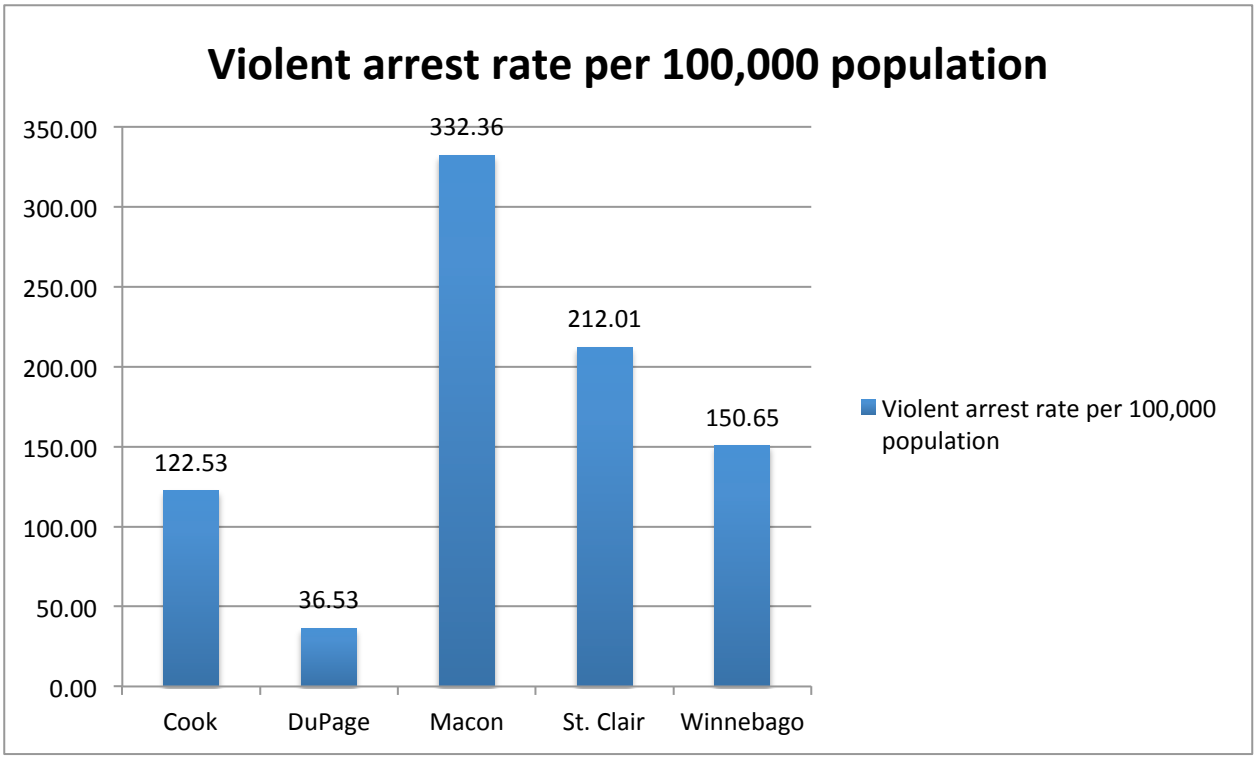


2. Refer to the tab labeled "Arrest rates_question 2".
    a. Compute the violent arrest rate per 100,000 population for the five counties and complete the table below (1 point)

**Violent arrest rate**

| County | Violent arrest rate per 100,000 population |
|---|---|
| Cook | 122.53 |
| DuPage | 36.53 |
| Macon | 332.36 |
| St. Clair | 212.01 |
| Winnebago | 150.65 |

    b. Create a column chart using the arrest rates in Excel and paste the completed chart below. Be sure to include data labels on the chart (2 point). **Hint: enter the rates starting in Cell C11. Data labels can be added by right clicking the chart and selecting "add data labels."**




3. Refer to the tab labeled "Stemplot_question 3".
    a. Using the prison sentence length data, draw a stemplot on the template below (3 points). **HINT: be sure to arrange the data from smallest to largest before you start.**

4. Refer to the tab labeled “Histogram_question 4.”
    a. Draw a histogram in the template below using the number of prior arrests in Column C. Use intervals that are 1 arrest wide (3 points).