**5** OF 5 QUESTIONS REMAINING

Top of Form

Bottom of Form

Homework Content

Top of Form

Next week you will complete the Statistics Application Memo. Look ahead to review the requirements for this assessment to understand what is required.

Review the [Week 1 data sets](https://multimedia.phoenix.edu/cms/202337155). Each spreadsheet contains productivity data sets for employees within three major subdomains of criminal justice:

* + Data Set 1: Police Officers and Detectives
  + Data Set 2: Prosecutors
  + Data Set 3: Case Workers in Corrections and Community Programs

Select one data set that is most interesting or relevant to you.

Respond to the following questions in 45 to 90 words each. Each response you provide will help you organize your ideas and prepare for next week’s summative assessment.

**Assessment Support**

* + Review this week’s [University Library Resources](https://library.phoenix.edu/CJA/386rZ/w1).
  + Review Ch. 3, “Organizing, Displaying, and Presenting Data,” and Ch. 4, “Measures of Central Tendency,” of *Statistics for Criminology and Criminal Justice*.

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Bottom of Form

Top of Form

**Question 1**

**10 Points**

Determine the measures of central tendency (mean, median, mode) for each category within the data set.

* + What is the mean? Use a calculator, if needed.
  + What is the median?
  + What is the mode?

Bottom of Form

Top of Form

**Question 2**

**15 Points**

Compare the measures of central tendency for each employee by month.

* + Which employees are performing above average?
  + Which employees are performing at average performance levels?
  + Which employees need improvement?
  + Justify your responses.

Bottom of Form

Top of Form

**Question 3**

**25 Points**

A supervisor analyzing data should be prepared to also analyze relevant factors and trends that may have an impact on the results. Distinguishing between what is known and what is unknown about data is critical to effective data analysis.

* + What are 1-2 conclusions a supervisor can make from the central tendency calculations?
  + What are 1-2 details a supervisor may need to investigate or research before using this data to address employee performance?

Bottom of Form

Top of Form

**Question 4**

**25 Points**

How might a supervisor benefit from measuring employee productivity through central tendencies? How might employees benefit from reviewing data about their work performance?

Bottom of Form

Top of Form

**Question 5**

**25 Points**

Reflect on what you learned this week about organizing and displaying statistical data.

* + Describe the advantages and disadvantages of using a spreadsheet to organize and display data.
  + Explain how you might present the data differently if you were the supervisor. Justify your response.

Bottom of Form

**Additional content**

Top of Form