Name: _____ Date: _____

BUREAU OF DATA SCIENCE INVESTIGATIONS
OFFICIAL CASE REPORT: THE CASE OF THE CANDY CULPRIT

Section I: Executive Summary

After a complete analysis of the suspect data, the Data Science Unit hereby identifies the Candy Culprit as:

NAME OF THE ACCUSED: _____

SCHOOL ROLE (Student or Staff): _____

Section II: Evidence Briefs

Evidence Brief A: The Center (Narrowing the Group)

Clue #7 told us to "find the mean suspect age, and add on one MAD." Explain how the mean and MAD of the Age variable proved that a staff member committed the crime. Include the values you calculated.

Evidence Brief B: The Boxplot (Eliminating Sage Wright)

Record the five-number summary for YearsService from your Clue #8 analysis.

Minimum	Q1	Median	Q3	Maximum

Write the math statement that the culprit's value must satisfy: _____ < YearsService < _____

Explain why Sage Wright was eliminated using the words quartile and box:

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Evidence Brief C: The Showdown (Ben Stern vs. Paige Turner)

Both Ben Stern and Paige Turner were inside the box. Record the evidence for each suspect.

Suspect	Age	Library Books	Years Service	Fave Candy	Fave Class	Activity
Ben Stern						
Paige Turner						

Justify your verdict: Why did you choose your suspect instead of the other final contender? Use at least two pieces of data evidence from the table above and the clues.

Evidence Brief D: Choosing the Right Tools

The staff YearsService data are skewed right. Explain why a data detective should use the median and IQR instead of the mean and MAD to describe skewed data.

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Section III: The Data Cycle Summary

Give one example of something our DSU squad did during each phase of the Data Cycle in this investigation.

Data Cycle Phase	What We DId in the Case of the Candy Culprit
Pose Questions	
Consider Data	
Analyze Data	
Interpret Data	

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