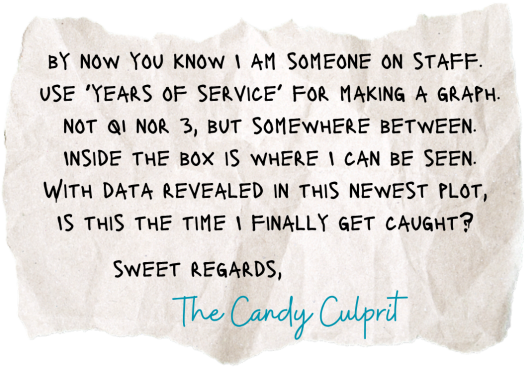
Candy Culprit note from Clue #8:



Step 1:
Identify the variable that should be explored based on the Candy Culprit's note.

- Variable name: _____
- What type of variable is this? *Circle one.* **Categorical** **Numerical**
- Which type of plot will you create to analyze this clue? _____
- Which numerical summaries will you calculate? *Circle all that apply.*

Mean **Median** **MAD** **Q1** **Q3** **IQR**

- Which of your circled answers is a measure of center and which is a measure of spread?

Measure of Center: _____ **Measure of Spread:** _____

Step 2:
Create an appropriate plot in CODAP and include a screenshot or sketch here. Your plot should display the numerical summary values you identified in Step 1, as well as their labels.

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Step 3:
Report the five-number summary for your variable.

Minimum: _____ Q1: _____ Median: _____ Q3: _____ Maximum: _____.

Step 4:
The clue says: *"Not Q1 nor 3, but somewhere between. Inside the box is where I can be seen."* Write this as a math statement using your values for Q1 and Q3:

_____< Years of Service <_____

Use your CODAP case table to test each of the three remaining suspects.

Suspect	Years of Service	Strictly between Q1 and Q3, or on an edge?	Status (circle one)
Sage Wright			ELIMINATED / REMAINING
Ben Stern			ELIMINATED / REMAINING
Paige Turner			ELIMINATED / REMAINING

Step 5:
Two suspects passed the boxplot test. Look up their values in your CODAP case table.

Suspect	Age	Library Books	Years Service	Fave Candy	Fave Class	Activity
Name 1: _____						
Name 2: _____						

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Now compare each suspect to the clues. Circle YES if their data fit the clue, NO if it does not, or ? if the data cannot tell us.

Clue	What the Clue Tells Us	Suspect 1: _____	Suspect 2: _____
#1 and #2	Chocolate candy was stolen.	YES / NO / ?	YES / NO / ?
#5 and #6	The culprit reads a lot – ABOVE the mean of 6 books.	YES / NO / ?	YES / NO / ?
#7	The culprit is "just slightly older" than the mean age plus one MAD (36.13 years).	YES / NO / ?	YES / NO / ?
#8	The culprit is inside the box: (Q1 < YearsService < Q3)	YES / NO / ?	YES / NO / ?

Which piece of evidence do you think is the STRONGEST? Why?

Preliminary Recommendation: Who do you recommend arresting as the Candy Culprit? Keep your answer secret until the final unmasking!

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