Data Table and Chart Maker Prompts Name _____

Classroom GPA Study

Step 1: Review the Study Data - Thirty students recorded their **average weekly study hours** and **current GPA**.

Data (hours, GPA): (2, 2.0), (3, 2.3), (4, 2.5), (5, 2.8), (6, 3.0), (7, 3.2), (8, 3.3), (9, 3.5), (10, 3.6), (11, 3.7), (12, 3.8), (13, 3.9), (14, 4.0), (2, 1.9), (4, 2.7), (6, 3.1), (8, 3.4), (10, 3.6), (12, 3.8), (14, 4.0), (3, 2.4), (5, 2.9), (7, 3.3), (9, 3.5), (11, 3.7), (13, 3.9), (15, 4.0), (1, 1.8), (5, 2.7), (8, 3.5)

Step 2: ChatGPT Prompt - Copy and paste this into ChatGPT:

"Please create a **scatterplot** using this data (hours studied vs GPA).
Then calculate the **correlation coefficient** and describe whether the relationship is positive, negative, or none."

Step 3: Record Your Results

Statistic	Result
Correlation Type	
Correlation Strength (r)	

Step 4: Check Your Understanding

1. What kind of **relationship** exists between hours studied and GPA?
   ☐ Positive ☐ Negative ☐ None
2. What best describes the **strength** of the correlation?
   ☐ Weak ☐ Moderate ☐ Strong
3. If a student studies **more hours**, what usually happens to their GPA?
   ☐ Increases ☐ Decreases ☐ Stays the same
4. Which variable is the **independent variable**?
   ☐ Hours Studied ☐ GPA
5. What kind of chart best shows the relationship between two variables?
   ☐ Bar chart ☐ Line chart ☐ Scatterplot ☐ Pie chart