



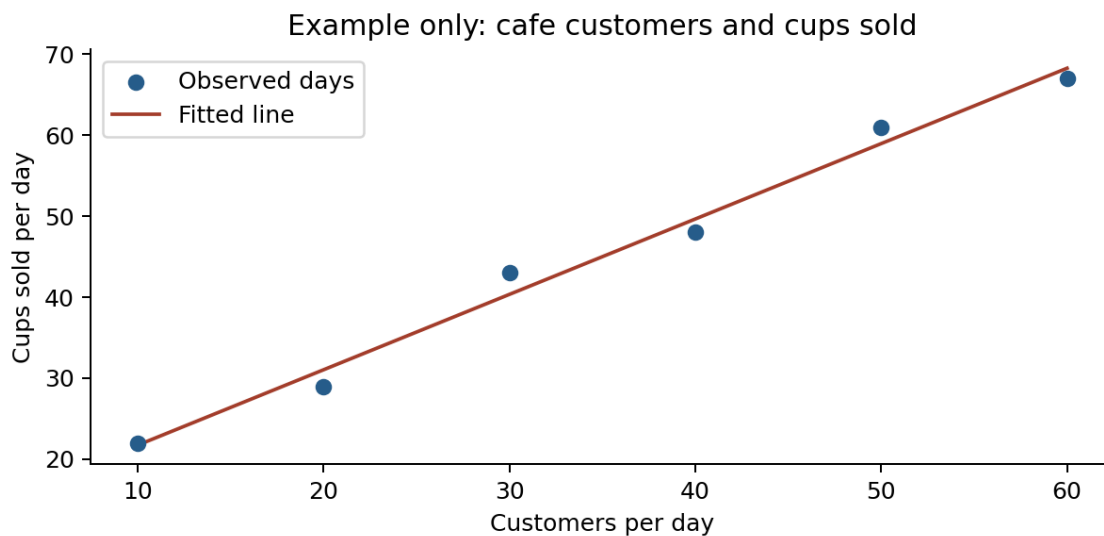
Homework 2: Examples

Sample presentation for Questions 1 and 2

These short examples show what a finished response can look like. They use a separate, simulated cafe dataset, not the data in Question 1. Replace the sample material with your own work. These examples do not answer the 50-point hand-calculation question.

Question 1 example: a graph and your explanation

A. Show the graph you are interpreting. For your homework, refer to the provided delivery graph. This cafe graph is only an illustration of the response format.



B. Write a short explanation in your own words. A sample response for this different graph:

The fitted line rises as the number of customers increases. Its slope is 0.931, so an additional customer is associated with about 0.931 additional cups sold per day. A dot represents an actual day; the line gives a fitted prediction. The day with 30 customers lies above the line, meaning more cups were sold than the line predicts. A cafe could use the line as a rough planning guide, but it does not give the exact sales for every day or prove that adding customers alone causes the change.

Your final response should connect three things: what the line means, how an observed dot compares with it, and what a planner can and cannot conclude. Do not copy this paragraph into your homework; explain the delivery graph yourself.

Question 2 example: evidence, prompts, and explanation

A. Show what you uploaded and what you asked.

Insert your own screenshot showing the uploaded CSV filename and your actual prompt or AI conversation here.

A possible prompt for the separate `example_cafe.csv` file is shown below. This is illustrative wording, not a transcript of an actual AI session:

Use my uploaded `example_cafe.csv`. Set X to customers and Y to cups_sold. Fit a simple linear regression with an intercept. Show the intercept, slope, observation count, and R-squared. Draw the observed dots and fitted straight line, with units on both axes and no confidence band.

B. Show your actual table and fitted-line screenshot. An example output table is:

Term	Coefficient	Model information	Value
Intercept	12.400	Observations	6
Customers	0.931	R-squared	0.987

For your submission, insert your actual Colab table and graph screenshots here. The numbers above were computed from the supplied simulated example CSV; they are not a screenshot of a Colab session.

C. Explain why you wrote the prompt and what happened. Example opening:

I named the file so the analysis would use my uploaded data. I specified X and Y so customers would be used to predict cups sold. I asked for labeled axes to keep the units clear. The resulting table and graph describe a straight-line relationship; they do not say every day falls on that line.

Continue with **your own** slope and R-squared interpretation, the connection to the fitted-line method, and your judgment of a specific statement from the AI. Quote what it actually said and use your table or graph to explain whether you agree. If you used a follow-up prompt, include it and explain why.

Submission shape: your upload/prompt evidence, result screenshots, and your own explanation.