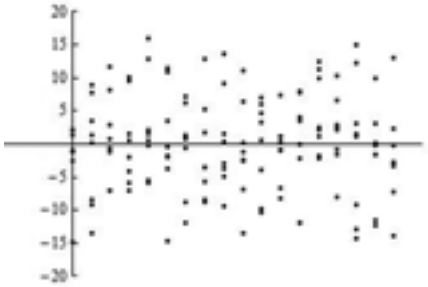
FRIDAY, SEPTEMBER 28, 2018

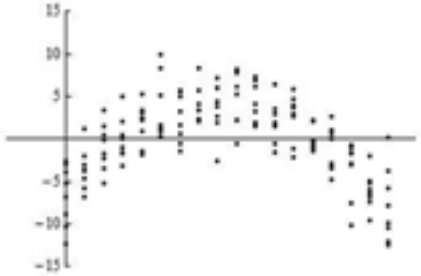
Warm-up

Describe any pattern you see in the following residual plots (using your own words)

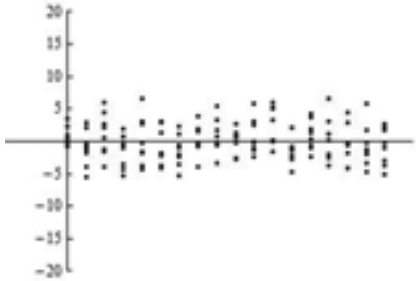
Residual Plot A



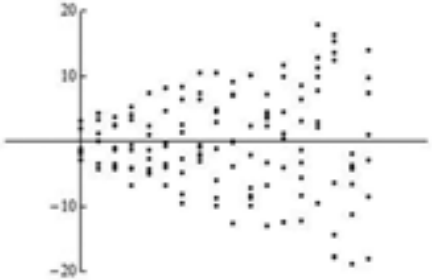
Residual Plot B



Residual Plot C



Residual Plot D



Check Homework

Cheerios Lab

Partners…

Tonight's Homework:
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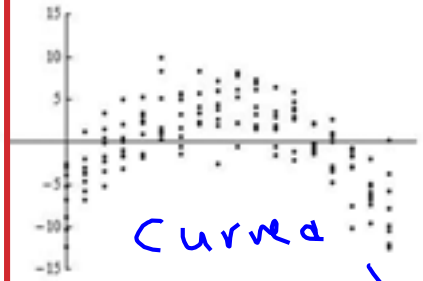
Objectives

Content: I will gather data and examine it using linear regression tools.
Social: I will work well with my partner, sharing the load the encouraging him/her.
Language: I will explain my reasoning clearly, using the correct vocabulary and context.

Residual Plot A

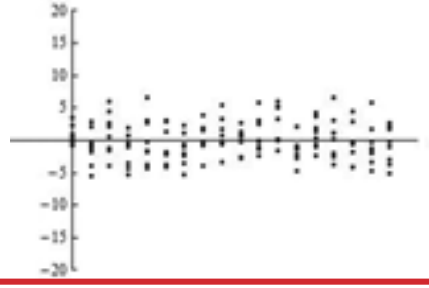
"Scattered"

Residual Plot B

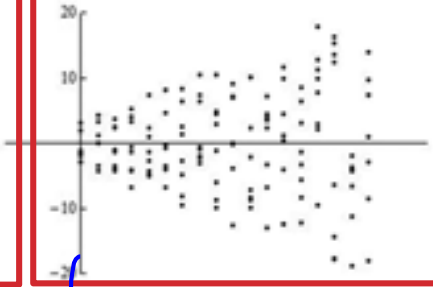


Curve

Residual Plot C

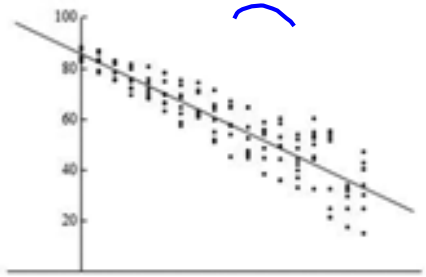


Residual Plot D



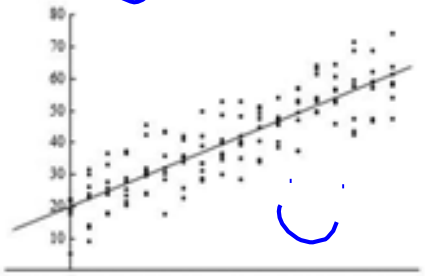
"plot thickens"

Scatterplot I



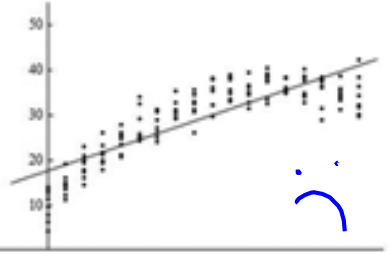
i

Scatterplot II



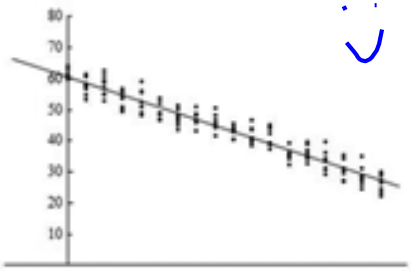
ii

Scatterplot III



iii

Scatterplot IV



iv

Pattern in residual plot means no good linear model

RECAP FROM MONOPOLY

Phrases to know

r—"There is a positive/negative, weak/moderate/strong linear association
between explanatory variable and response variable."

R^2—"___ percent of the variation in the response variable can be explained by the approximate linear relationship with the explanatory variable."

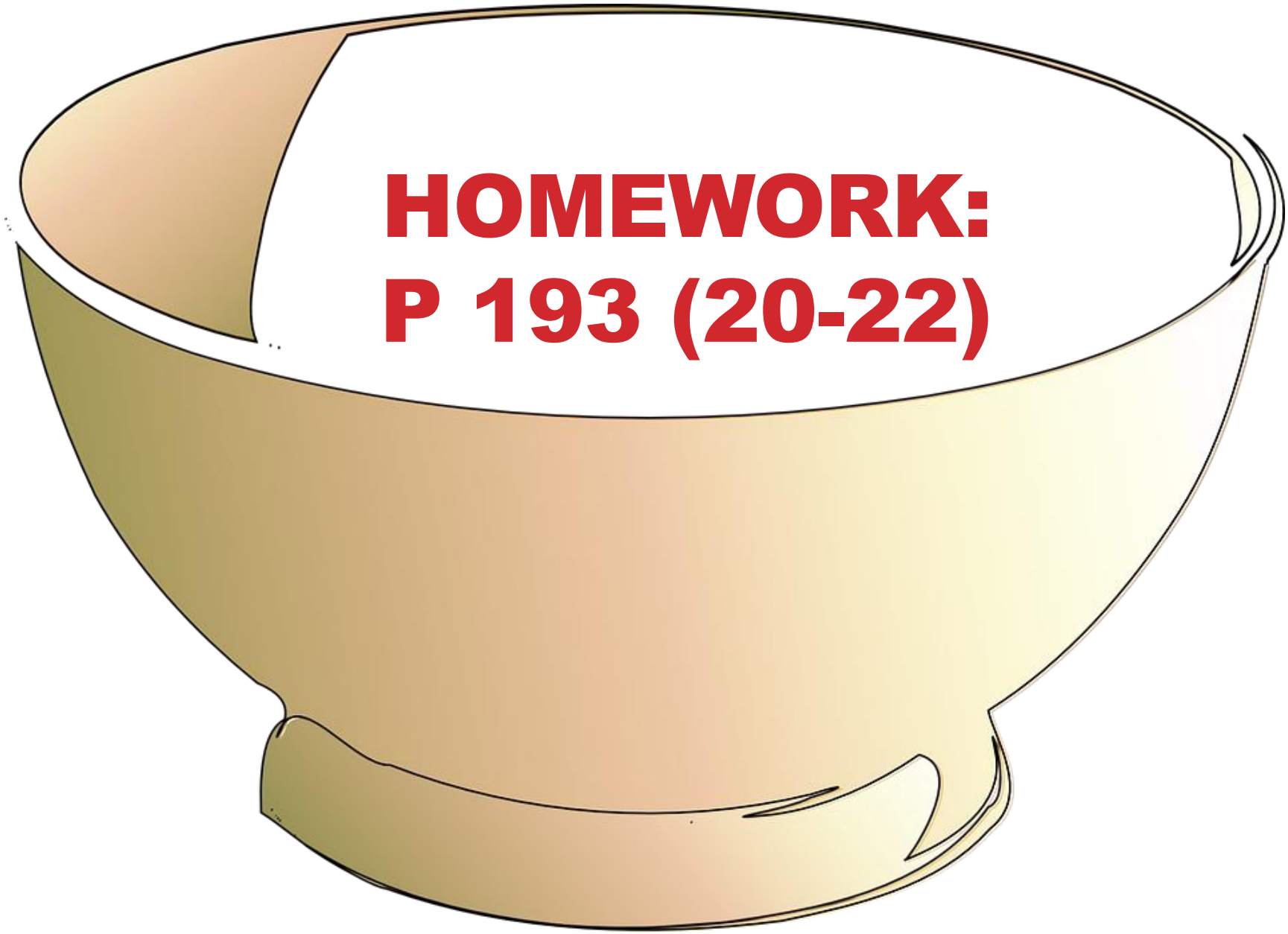
Slope—"For every 1 x-unit increase in the explanatory variable, our model
predicts an average increase/decrease of y unit in the response variable."

y-intercept—"At an explanatory variable of zero x-units, our model predicts a response variable of y-units." (does this make any sense?)

CHEERIOS LAB

Once data is collected,

- create & sketch the scatterplot
- create and sketch the residual pot
- determine if a linear regression anlysis is appropriate



HOMEWORK:
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