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Regression and correlation in R

For each of the following problems,

- (a) Compute the correlation between the variables.
- (b) Find the equation of the regression line.
- (c) Interpret the slope of the regression line in ordinary human language.
- (d) Find the fitted value and residual for the specified observation, or say why doing so would be inappropriate.

Use R for all calculations. Include both code and output with your solutions.

Problem 1

Using the `garbage weight` data set, available on Moodle, model the weight of plastic waste using the weight of metal waste.