PROBLEM-OF-THE-DAY: ALGEBRA 1
WEEK: December 10 to December 14   DAY: Tuesday

RISD Objective: Given a scatter plot, students will be able to determine the correlation, draw a line of best fit, and use it to make a prediction.

PROBLEM #74

Would you expect a positive, negative, or no correlation between the two sets of data. Explain your reasoning.

a) amount of free time you have and the number of hours you work

b) the weight of a teenager and his/her hair color

c) # of roof repairs and the # of hail storms

d) the height of a student and the city where he/she lives

MODEL SOLUTION #74

a) The correlation is negative; because there are only 24 hours in the day, the more you work, the less free time you have.

b) There would be no correlation; there is no correlation between weight and hair color.

c) The correlation is positive; as the number of hail storms increases, the number of roofs needing repairs increases

d) There is no correlation; there would be no correlation between height and cities