

**PROBLEM-OF-THE-DAY: ALGEBRA 1**

**WEEK:** December 10 to December 14

**Day:** Wednesday

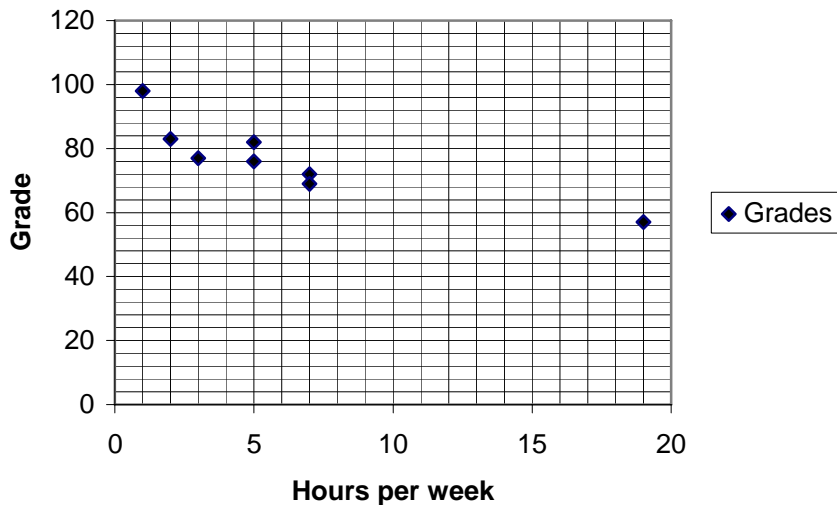
**RISD Objective:** Given a scatter plot, students will be able to determine the correlation, draw a line of best fit, and use it to make a prediction.

---

**PROBLEM #75**

The scatter plot below shows the results of a survey of students grades and the number of hours they spend playing video games per week:

**Grades vs. number of hours playing video games**

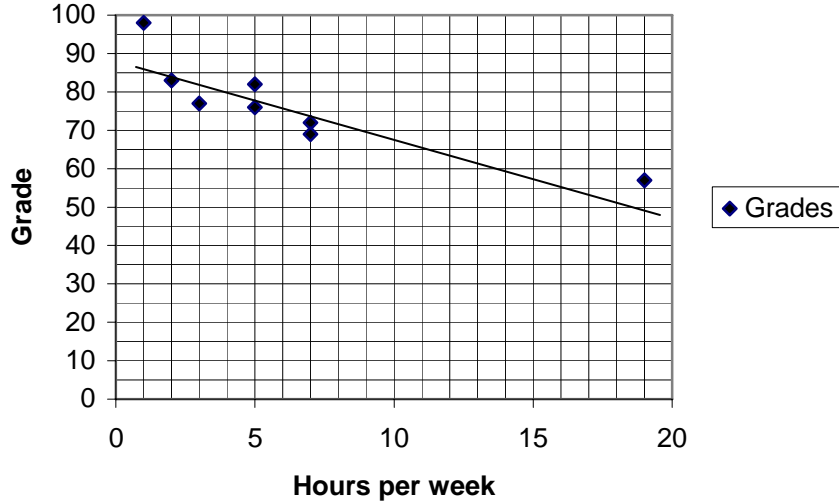


- a) Describe the correlation.
- b) Find a line of best fit.
- c) Using the line of best fit, predict the grade a student might have if she played video games 4 hours per week.

**MODEL SOLUTION #75**

- a) The trend has a negative slope, so there would be a negative correlation.
- b) The plot below shows a possible line of best fit.

**Grades vs. number of hours playing video games**



- c) A student who played video games 6 hours per week would have an estimated 76 average.