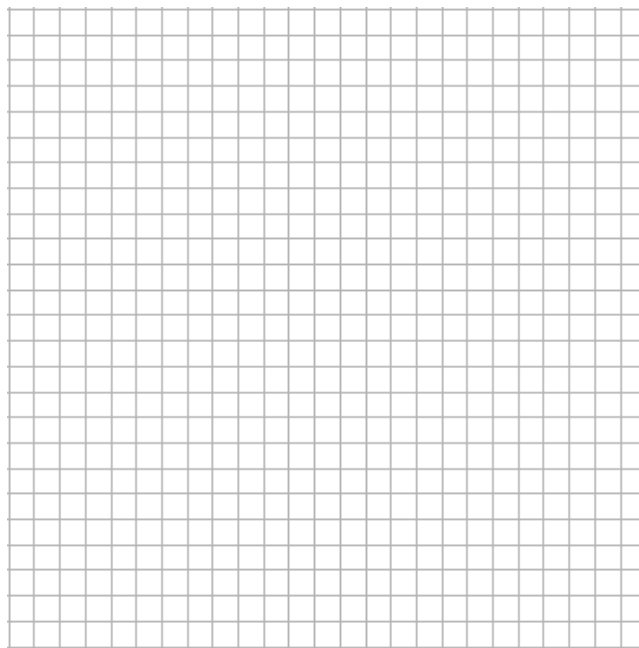8. Use the data to make a scatter plot. Then answer the questions.

Weeks since school started	Money in savings
1	200
3	175
4	162
7	120
10	87
13	57
20	5

9. Is the correlation of the graph positive or negative? Why?

10. What would you estimate the correlation coefficient to be? Why?
(If you have a calculator or software that can calculate it precisely then do so.)

11. Create a regression line and find the regression equation. What is the regression equation?

12. What does the slope of the regression equation mean in terms of the variables?

13. Most school years are 36 weeks. If the rate of spending is kept the same how much more money needs to be saved during the summer in order for there to be money to last all 36 weeks.